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

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

That's all there is to it!

1.2 libjpeg 6b

1.2.1 Notifications :

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

1.2.2 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
==========

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.

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.

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============

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3. You may not pretend that you wrote this software. If you use it in a
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must acknowledge somewhere in your documentation that
you've used the IJG code.

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documentation must state that "this software is based in part on the work of
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(3) Permission for use of this software is granted only if the user accepts
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not just to the unmodified library. If you use our work, you ought to
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ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.

The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

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

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

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  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 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
==========

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

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

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

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

FILE FORMAT WARS
================

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

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

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

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

TO DO
=====

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.

1.3 xalan 2.7.1

1.3.1 Available under license :

xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 226215 2005-06-03 22:49:13Z mrglavas $

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Joseph Reagle <site-policy@w3.org>

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1.5 geronimo-jta 1.1.1

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1.6 json-simple 1.1

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Source: http://svn.apache.org/viewvc/xml/stylebook/
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* /ha-api-3-1-9-sources-jar/org/glassfish/ha/store/api/BackingStoreConfiguration.java
* /ha-api-3-1-9-sources-jar/org/glassfish/ha/store/annotations/Attribute.java
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1.18 json-simple 1.1.1

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1.36 bean-validation-api 2.0.1.Final

1.36.1 Available under license :

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1.37 iconv 2.28

1.37.1 Available under license :

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Version 2, June 1991

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changes to the library and recompiling
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Because
of this blurred distinction, using the ordinary General
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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its purpose remains meaningful.

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

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This option is useful when you wish to copy part of the code of
the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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Version 3, 29 June 2007

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

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

TERMS AND CONDITIONS

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

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The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
available free
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1.42 shared-mime-info 1.9-3.el8

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1.45 libverto 0.3.0-5.el8

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1.46 python-six 1.11.0-8.el8

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1.47 python-iniparse 0.4-31.el8

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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1.56 jaxb-core 2.2.6

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1.66 icu 60.3-2.el8_1

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

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

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

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

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

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

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

## Compilation
```

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.68 jackson-mapper-asl 1.5.0

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Found in path(s):
* /jackson-mapper-asl-1-5-0-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.69 java-jwt 3.10.3

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1.70 springfoxswagger 3.0.0

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Found in path(s):
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/BasicAuthFactory.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ExamplesMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
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* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/InheritanceDeterminer.java
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Found in path(s):
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
*
 /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/configuration/Swagger2JacksonModule.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ParameterMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
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* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebFlux.java

* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/web/Swagger2ControllerWebMvc.java
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* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2WebFlux.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java
*
 /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2WebMvc.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/LicenseMapper.java
* /springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java

1.71 springfox-swagger-ui 3.0.0

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1.72 springfox-swagger-common 3.0.0

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Found in path(s):
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationNotesReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationHttpMethodReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/annotations/Annotations.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiOperationTagsReader.java
* /springfox-swagger-common-3-0-0-sources-

jar/springfox/documentation/swagger/readers/operation/SwaggerMediaTypeReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/VendorExtensionsReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java
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/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationHiddenReader.java
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jar/springfox/documentation/swagger/readers/parameter/ParameterAnnotationReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelBuilder.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/web/SwaggerResourcesProvider.java
*
/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ApiKeyVehicle.java
* /springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
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* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResource.java
*
/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java
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* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelProperties.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.java
*
/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/InMemorySwaggerResourcesProvider.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelTypeNameProvider.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/ResponseHeaders.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/ApiParamParameterBuilder.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/SwaggerExpandedParameterBuilder.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ApiResourceController.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OpenApiOperationAuthReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerApiListingReader.java
*
/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/schema/ApiModelPropertyPropertyBuilder.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationImplicitParametersReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationResponseClassReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerResponseMessageReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/HostNameProvider.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/operation/OperationAuthReader.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/OpenApiParameterBuilder.java
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* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/ModelRendering.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java
*
 /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/DocExpansion.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/TagsSorter.java
* /springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfigurationBuilder.java

1.73 springfox-core 3.0.0

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* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityScheme.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Parameter.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/OAuth.java
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/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiKey.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypeBuilder.java
*
/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Server.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/DocumentationReference.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceGroup.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Enums.java
*
 /springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityReference.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OperationBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tag.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ResourceListingBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListing.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/WildcardType.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ObjectVendorExtension.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Operation.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiListingBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResolvedMethodParameter.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelPropertyBuilder.java
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 /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiDescription.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/BuilderDefaults.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiDescriptionBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ModelBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/RequestParameterMerger.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/DocumentationBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Tags.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelProperty.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ApiInfoBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/MediaTypes.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelRef.java
*
 /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterBuilder.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ListVendorExtension.java
*
 /springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/LoginEndpointBuilder.java
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 /springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Cacheable.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationCodeGrantBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiInfo.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/OperationNameGenerator.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiListingReference.java

* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java
*
 /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OAuthBuilder.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/builders/PathSelectors.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/VendorExtension.java
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* /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/NameValueExpression.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/GrantType.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Incubating.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRules.java
*
 /springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenEndpoint.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationCodeGrant.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/PathProvider.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/AuthorizationScope.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/RequestMappingInfo.java
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 /springfox-core-3-0-0-sources-jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Entry.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/service/TokenRequestEndpoint.java
* /springfox-core-3-0-0-sources-jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java
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1.74 springfox-spring-web 3.0.0

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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ResponseMessagesReader.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationDeprecatedReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/OperationCachingEquivalence.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanner.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DescriptionResolver.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeField.java
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* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiDescriptionReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/ControllerNamingUtils.java
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jar/springfox/documentation/spring/web/plugins/DocumentationPluginsBootstrapper.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/json/JacksonModuleRegistrar.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/CachingOperationReader.java

*
/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/OperationPathDecorator.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanResult.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathSanitizer.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationTagsReader.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterMultiplesReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReader.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationReader.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingAdjuster.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterDefaultReader.java
*
/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DefaultConfiguration.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DocumentationCache.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/json/Json.java
* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiListingScanningContext.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/DefaultPathProvider.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/PathMappingDecorator.java
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* /springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/AbstractOperationParameterRequestConditionReader.jav
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/CombinedRequestHandler.java
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* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ResourceGroups.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ExpansionContext.java
*
 /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DefaultRequestHandlerCombiner.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeParameterMetadataAccessor.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeDeterminer.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/PathAndParametersEquivalence.java
* /springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/ResolvedMethodParameterEquivalence.java
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1.75 springfox-spi 3.0.0

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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java
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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ResponseContext.java
*
 /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelContext.java
* /springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/OperationModelContextsBuilder.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/Defaults.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java
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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
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 /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DocumentationPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelPropertyContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathAdjuster.java

* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
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 /springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathDecorator.java
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* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/DocumentationType.java
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1.76 springfox-schema 3.0.0

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* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Maps.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
*
 /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Collections.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyDefinitions.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java

* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelProperty.java
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 /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
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* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/Accessors.java
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 /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelReferenceProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ResolvedTypes.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/FactoryMethodProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/Annotations.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelProvider.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
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* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameExtractor.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
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* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/XmlPropertyPlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java
* /springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java
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1.77 gdb 8.2-12.el8

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

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

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

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

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

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subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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to use the modified definitions.)

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

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

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

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

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

Appendix: How to Apply These Terms to Your New Libraries

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

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a

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

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
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Corresponding Source in
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concluded that weaker conditions might promote sharing better.

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the names:

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

That's all there is to it!

1.78 jctools-core 3.1.0

1.78.1 Available under license :

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
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    <instructions>
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 </repository>
</distributionManagement>
```

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<inceptionYear>2013</inceptionYear>

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  <distribution>repo</distribution>
 </license>
</licenses>

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

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

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</prerequisites>

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 <java.version>1.6</java.version>
 <java.test.version>1.8</java.test.version>

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

```
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

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

Found
 in path(s):
* /jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
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*/
```

Found in path(s):
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
*

/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java

1.79 libssh 0.9.4-2.el8

1.79.1 Available under license :

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1.80 brotli 1.0.6-2.el8

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

1.82 acl 2.2.53-1.el8

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1.88 libusb 1.0.23-4.el8

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1.89 shadow 4.6-11.el8

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		

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Thanks to the many outside volunteers who have worked under Guido's
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1.100 rpm 4.14.3-4.el8

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

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

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

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That's all there is to it!

1.101 libsolv 0.7.11-1.el8

1.101.1 Available under license :

All files for the Windows compatibility layer are taken from musl,
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1.102 sqlite 3.26.0-11.el8

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1.103 crypto-policies 20200713-1.git51d1222.el8

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1.104 libpcap 1.9.1-4.el8

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1.114 pcre 10.32-2.el8

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1.115 libcap 2.26-4.el8

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1.116 kerberos 1.18.2-5.el8

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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.121 glibc 2.28-127.el8

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library does the
same job as widely used non-free libraries. In this
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@enumerate a
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cause the whole of the work to be licensed at no
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@item
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table of data to be supplied by an application program that uses
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in the event an application does not supply such function or

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

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

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medium customarily used for software interchange.

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

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

However, linking a ``work that uses the Library'' with the Library
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it
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library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

Otherwise,

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
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with the Library, with the complete machine-readable ``work that
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executable containing the modified Library. (It is understood
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Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
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@item
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@enumerate a
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@subheading END OF TERMS AND CONDITIONS

@page
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@end
 smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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1.123 berkeley-db 5.3.28-39.el8

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Any executables containing that work also fall under Section 6,
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a) Accompany
the work with the complete corresponding
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properly with a modified version of the library, if
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1.130 libarchive 3.3.2-9.el8

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1.131 cyrus-sasl 2.1.27-5.el8

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1.132 gnupg 2.2.20-2.el8

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

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.135 xerces-j 2.6.2

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1.136 python-setuptools 39.2.0

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1.137 xerces-j 2.0.1

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1.138 libxkbcommon 0.9.1-1.el8

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1.139 vim 8.0.1763-15.el8

1.140 cryptsetup 2.3.3-2.el8

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Julian Seward, jseward@bzip.org
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========

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

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the
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be optional: if the application does not supply it, the square
root function must still
 compute square roots.)
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@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However,
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contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
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you must include the
copyright notice for the Library among them, as well as a reference
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@enumerate a
@item
Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

@item
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suitable mechanism is one that (1) uses at run time
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properly with a modified version of the library, if the user installs
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@item
Verify that the user has already received a copy of these
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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That's all there is to it!

1.143 openssl 1.1.1g-12.el8_3

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*/

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1.145 xkeyboard-config 2.28-1.el8

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1.146 selinux 2.9-4.el8_3

1.147 curl 7.61.1-14.el8_3.1

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==========

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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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 was addressed when the [Modified BSD
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1.148 python-setuptools 39.2.0-6.el8

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1.149 e2fsprogs 1.45.6-1.el8

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
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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
#
#
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1.158 guava 30.1-jre

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  *
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  * java.util.HashMap
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  */

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*/
/*
 * This following method is a modified version of one found in
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* /guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
*
/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Verify.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimapValues.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.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-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
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*/

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* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedBytes.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/HostSpecifier.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/SignedBytes.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Callables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Service.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java
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 /guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java
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 /guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedGraphConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardNetwork.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectCollectors.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraphBuilder.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkBuilder.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/MapIteratorCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Serialization.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractRangeSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Count.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-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsLastOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractBiMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractListMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimap.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/Iterators.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Interner.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Synchronized.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ComparatorOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/CompoundOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java

* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/MutableClassToInstanceMap.java
*
/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/UsingToStringOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Iterables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/NaturalOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Lists.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ExplicitOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultimap.java
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/guava-30-1-jre-sources-1-jar/com/google/common/collect/ListMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SetMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMapEntry.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/LexicographicalOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedHashMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingCollection.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Maps.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingObject.java
*
/guava-30-1-jre-sources-1-jar/com/google/common/collect/MapDifference.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumBiMap.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/BoundType.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListeners.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/Types.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeParameter.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Absent.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalNotification.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/Hasher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/HashCode.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/MediaType.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractStreamingHasher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java

* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/HostAndPort.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Enums.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLongs.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListener.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalCause.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/cache/Cache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilterStrategies.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/BigIntegerMath.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/IntMath.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingOutputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyContiguousSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleMath.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/Funnels.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheLoader.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/Funnel.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Queues.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/LongMath.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleUtils.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/LoadingCache.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/ParseRequest.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FutureCallback.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilter.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/HashFunction.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
* version.
*/

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* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
*
/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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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-30-1-jre-sources-1-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSequentialIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListMultimap.java
*
/guava-30-1-jre-sources-1-jar/com/google/common/collect/RowSortedTable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableListIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMapDifference.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/math/Quantiles.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/base/Predicates.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Function.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Throwables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Primitives.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/Flushables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Supplier.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Interners.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/Closeables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/LineBuffer.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/base/Suppliers.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Defaults.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java

* /guava-30-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Functions.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CharStreams.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/base/PatternCompiler.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/CommonMatcher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/CommonPattern.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/JdkPattern.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Platform.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java
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* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
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* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
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* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/FluentIterable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Chars.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/escape/UnicodeEscaper.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java
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 /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.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
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  */

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```
/**
  * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
  * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
  *     ImmutableSortedMap#of(Comparable, Object)}.</b>
  */
```

Found in path(s):
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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 /guava-30-1-jre-sources-1-jar/com/google/common/base/Ascii.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Strings.java
* /guava-30-1-jre-sources-1-jar/com/google/common/annotations/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Equivalence.java
* /guava-30-1-jre-sources-1-jar/com/google/common/annotations/Beta.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java

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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisets.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntry.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/MultimapBuilder.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/MoreFiles.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/math/LinearTransformation.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CharSink.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSink.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
* /guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/escape/package-info.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/ByteSource.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
*

/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/CartesianList.java
* /guava-30-1-jre-sources-1-jar/com/google/common/io/FileWriteMode.java
* /guava-30-1-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /guava-30-1-jre-sources-1-jar/com/google/common/xml/package-info.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java
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1.160 commons-lang3 2.6

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1.161 commons-configuration 1.8

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* /jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Lists.java
*
 /jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterException.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/IntegerConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/FileConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/StringConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/IStringConverter.java
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* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/LongConverter.java
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* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/InetAddressConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameters.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/ParameterDescription.java
*
 /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URIConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/BaseConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/CharArrayConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/PathConverter.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/ParametersDelegate.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/ResourceBundle.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/IDefaultProvider.java
* /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/DoubleConverter.java
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* /jcommander-1-78-sources-2-jar/com/beust/jcommander/MissingCommandException.java
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 /jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/NoConverter.java
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* /jcommander-1-78-sources-2-jar/com/beust/jcommander/Parameter.java
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 /jcommander-1-78-sources-2-jar/com/beust/jcommander/IParameterValidator.java
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1.163 commons-logging 1.2

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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
*
/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /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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1.164 classmate 1.3.4

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1.170 javassist 3.25.0-GA

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1.171 jakarta-annotation-api 1.3.5

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Found in path(s):
* /jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
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/*
* Jakarta Bean Validation API
*
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java
* /jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java
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jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
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 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

1.176 jakarta-ws-rs-api 2.1.6

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

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* Project: http://site.mockito.org
* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

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1.177 commons-codec 1.15

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1.185 jax-ws-api 2.2.2-promoted-b02

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* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RequestWrapper.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/MessageContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ResponseWrapper.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Response.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpExchange.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceRef.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpHandler.java

* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/Handler.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/BindingType.java
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 /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceException.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Service.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RespectBinding.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/AddressingFeature.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Endpoint.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Action.java
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* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Binding.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/EndpointReference.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/HandlerResolver.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceProvider.java
*
 /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Provider.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/soap/SOAPMessageContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/PortInfo.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/AsyncHandler.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceClient.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ServiceMode.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/RespectBindingFeature.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Dispatch.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/Holder.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServiceFeature.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/WebServiceFeatureAnnotation.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/wsaddressing/W3CEndpointReference.java
*
 /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/MTOM.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/http/HTTPBinding.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/ServiceDelegate.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebFault.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/BindingProvider.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/soap/SOAPHandler.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/LogicalMessageContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/MTOMFeature.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/LogicalMessage.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/wsaddressing/W3CEndpointReferenceBuilder.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebEndpoint.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/handler/LogicalHandler.java
*
 /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/EndpointContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/Addressing.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/FactoryFinder.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/FaultAction.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/SOAPFaultException.java

* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/WebServicePermission.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/soap/SOAPBinding.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/spi/http/HttpContext.java
* /jaxws-api-2-2-2-promoted-b02-sources-2-jar/javax/xml/ws/ProtocolException.java
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* $Id: Invoker.java,v 1.1.2.5 2009/02/18 00:21:32 jitu Exp $
*/

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*$Id: Provider.java,v 1.9.2.15 2009/09/08 20:27:02 jitu Exp $
*/

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1.186 hk2-locator 2.6.1

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1.190 resourcelocator 1.0.3

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1.191 jakarta-inject 2.6.1

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/adapters/OracleV1DOMAdapter.java
No license file was found, but licenses were detected in source scan.

/*--

$Id: IllegalAddException.java,v 1.26 2007/11/10 05:28:59 jhunter Exp $

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/*--

$Id: XPath.java,v 1.17 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/xpath/XPath.java
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/*--

$Id: BuilderErrorHandler.java,v 1.13 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/input/BuilderErrorHandler.java
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/*--

$Id: OracleV2DOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp $

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$Id: EscapeStrategy.java,v 1.4 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/output/EscapeStrategy.java
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/*--

$Id: DefaultJDOMFactory.java,v 1.7 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/DefaultJDOMFactory.java
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/*--

$Id: ProcessingInstruction.java,v 1.47 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/ProcessingInstruction.java

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$Id: Attribute.java,v 1.56 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
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$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/JDOMFactory.java
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$Id: JDOMResult.java,v 1.24 2007/11/10 05:29:02 jhunter Exp $

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Found in path(s):
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$Id: Text.java,v 1.25 2007/11/10 05:28:59 jhunter Exp $

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$Id: Content.java,v 1.6 2007/11/10 05:28:58 jhunter Exp $

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$Id: AbstractFilter.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
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$Id: JAXPParserFactory.java,v 1.6 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/input/JAXPParserFactory.java
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$Id: ContentList.java,v 1.42 2007/11/10 05:28:58 jhunter Exp $

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$Id: XML4JDOMAdapter.java,v 1.18 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/adapters/XML4JDOMAdapter.java
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$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp $

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$Id: CDATA.java,v 1.32 2007/11/10 05:28:58 jhunter Exp $

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$Id: DOMAdapter.java,v 1.22 2007/11/10 05:28:59 jhunter Exp $

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$Id: DataConversionException.java,v 1.14 2007/11/10 05:28:58 jhunter Exp $

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$Id: XSLTransformer.java,v 1.5 2007/11/14 04:36:54 jhunter Exp $

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$Id: JDOMException.java,v 1.24 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/JDOMException.java
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/*--

$Id: IllegalTargetException.java,v 1.15 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/IllegalTargetException.java

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$Id: DocType.java,v 1.32 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
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$Id: NamespaceStack.java,v 1.14 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/output/NamespaceStack.java
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$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/output/JDOMLocator.java
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$Id: NamespaceKey.java,v 1.2 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/NamespaceKey.java
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$Id: AndFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/filter/AndFilter.java
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$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp $

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$Id: Filter.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
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$Id: SAXBuilder.java,v 1.92 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/input/SAXBuilder.java
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$Id: Parent.java,v 1.13 2007/11/10 05:28:59 jhunter Exp $

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$Id: JAXPDOMAdapter.java,v 1.13 2007/11/10 05:28:59 jhunter Exp $

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$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp $

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* /jdom-1-1-sources-1-jar/org/jdom/input/JDOMParseException.java
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* /jdom-1-1-sources-1-jar/org/jdom/transform/JDOMSource.java
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$Id: Element.java,v 1.159 2007/11/14 05:02:08 jhunter Exp $

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$Id: Format.java,v 1.13 2007/11/10 05:29:01 jhunter Exp $

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$Id: AbstractDOMAdapter.java,v 1.21 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/adapters/AbstractDOMAdapter.java
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$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/output/SAXOutputter.java
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$Id: DOMOutputter.java,v 1.43 2007/11/10 05:29:01 jhunter Exp $

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$Id: NegateFilter.java,v 1.4 2007/11/10 05:29:00 jhunter Exp $

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$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $

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$Id: FilterIterator.java,v 1.6 2007/11/10 05:28:59 jhunter Exp $

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$Id: DescendantIterator.java,v 1.6 2007/11/10 05:28:58 jhunter Exp $

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$Id: IllegalDataException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/IllegalDataException.java
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/*--

$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/input/DOMBuilder.java
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$Id: ContentFilter.java,v 1.15 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
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/*--

$Id: EntityRef.java,v 1.22 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/EntityRef.java
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/*--

$Id: SAXHandler.java,v 1.73 2007/11/10 05:29:00 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/input/SAXHandler.java
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/*--

$Id: AttributeList.java,v 1.24 2007/11/10 05:28:58 jhunter Exp $

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Found in path(s):
* /jdom-1-1-sources-1-jar/org/jdom/AttributeList.java
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/*--

$Id: XercesDOMAdapter.java,v 1.19 2007/11/10 05:28:59 jhunter Exp $

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* /jdom-1-1-sources-1-jar/org/jdom/adapters/XercesDOMAdapter.java
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/*--

$Id: UncheckedJDOMFactory.java,v 1.4 2007/11/10 05:28:59 jhunter Exp $

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* /jdom-1-1-sources-1-jar/org/jdom/UncheckedJDOMFactory.java
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$Id: TextBuffer.java,v 1.10 2007/11/10 05:29:00 jhunter Exp $

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$Id: Namespace.java,v 1.43 2007/11/10 05:28:59 jhunter Exp $

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Found in path(s):
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$Id: Document.java,v 1.85 2007/11/10 05:28:58 jhunter Exp $

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$Id: XMLOutputter.java,v 1.116 2007/11/10 05:29:01 jhunter Exp $

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1.205 management-api 3.2.1-b001

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1.206 rt 2.3.1

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1.208 rhino 1.7R3

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1.210 jersey-entity-filtering 2.33

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* /opentest4j-1-2-0-sources-1-jar/org/opentest4j/IncompleteExecutionException.java
*
/opentest4j-1-2-0-sources-1-jar/org/opentest4j/TestAbortedException.java
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1.215 libxml2 2.9.7-8.el8

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1.216 libtasn 4.13-3.el8

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

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

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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1.221 pyinotify 0.9.6

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1.231 gridx 1.3.2

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1.232 p11-kit 0.23.22-1.el8

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1.233 popt 1.18-1.el8

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1.234 trousers 0.3.15-1.el8

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1.235 ima-evm-utils 1.3.2-12.el8

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1.239 brotli 1.0.6-3.el8

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1.245 net-snmp 5.9.1

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1.250 eclipse-persistence-asm 2.7.8

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1.251 jersey-container-servlet-core 2.33

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1.252 eclipse-persistence-core 2.7.8

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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/WhenThenNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/CommunicationExceptionResource.java

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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/schema/model/Schema.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/tools/schemaframework/VarrayDefinition.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/IntegrityException.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/MapKeyConvert.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/expressions/SQLUpdateAllStatementForOracleAnonymousBlock.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/identitymaps/WeakIdentityMap.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLObjectReferenceMappingNodeValue.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/AggregateCollectionChangeRecord.java

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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/dynamic/DynamicType.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/InvalidObject.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/xml/XMLTransformer.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/TimeOfDay.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/services/RuntimeServices.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/schema/model/Include.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/remote/RemoteCommand.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLAnyAttributeMappingNodeValue.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/factories/model/transport/RMIIIOPTransportManagerConfig.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/sessions/coordination/corba/CORBATransportManager.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLVariableXPathCollectionMappingNodeValue.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/LikeNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/sessions/server/ConnectionPool.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/transaction/SynchronizationListenerFactory.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/UpdateNode.java
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* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/xml/XMLSchemaReference.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/XMLConversionException.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/eis/EISObjectPersistenceXMLProject.java
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* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/QueryException.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLSetting.java
* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/queries/MappedKeyMapContainerPolicy.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/queries/CursorPolicy.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/RepeatableWriteUnitOfWork.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/expressions/ListExpressionOperator.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/MapKeyNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/FloatLiteralNode.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLDirectMappingNodeValue.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/queries/ScrollableCursorPolicy.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/LowerNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/server/jboss/JBossPlatform.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLCollectionReferenceMappingMarshalNodeValue.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/services/jboss/MBeanJBossRuntimeServicesMBean.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sequencing/SessionBrokerSequencing.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/schema/model/Union.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/ConcatNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/XMLUnmarshaller.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/expressions/ConstantExpression.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/ServerPlatformExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sequencing/SequencingServer.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/schema/model/NestedParticle.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/sessions/DatabaseRecord.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/codegen/AttributeDefinition.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/NonSynchronizedSubVector.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/ParameterNode.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/security/PrivilegedGetDeclaredConstructorFor.java

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* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/descriptors/PessimisticLockingPolicy.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/services/websphere/ClassSummaryDetail.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/querykeys/DirectCollectionQueryKey.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/services/ClassSummaryDetailBase.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/NamedStoredProcedureQuery.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/parsing/SomeNode.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/mappings/BidirectionalPolicy.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/schema/SchemaModelGenerator.java
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jar/org/eclipse/persistence/sessions/factories/ProjectClassGenerator.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/databaseaccess/DatabasePlatform.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/SybasePlatform.java
*
/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/DBPlatformHelper.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/queries/DatabaseQuery.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/DB2Platform.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/factories/XMLSessionConfigProject_11_1_1.java
*
 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/localization/i18n/ExceptionLocalizationResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/ValidationExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/ConcurrencyExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/XMLConversionExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/JMSProcessingExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/localization/i18n/DMSLocalizationResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/QueryExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/sessions/server/ServerSession.java
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 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/transaction/was/WebSphereTransactionController.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/ConversionExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/RemoteCommandManagerExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/XMLMarshalExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/DescriptorExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/PersistenceUnitLoadingExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/i18n/ExceptionResource.java

* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/coordination/rmi/_RMIRemoteCommandConnection_Stub.java
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jar/org/eclipse/persistence/internal/jpa/jpql/AbstractModifyAllQueryBuilder.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/jpql/ParameterType.java
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/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/jpql/HermesParser.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/jpql/ReportQueryVisitor.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/jpql/RangeDeclaration.java
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*/
/**
* <p>The <code>RecordConverter</code> interface allows conversion of an adapter
* specific record. This can be used with the <code>EISPlatform</code> to allow
* user code to convert between the JCA-CCI Record used by the adapter and
* EclipeLink. This can also be used to convert a proprietary adapter record
* format or contents into XML, Mapped or Indexed data.
*

* @author James
* @since OracleAS TopLink 10g (10.0.3)
*/

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jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/v2/Resource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/annotations/XmlElementNillable.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/BeanValidationException.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/annotations/XmlValueExtension.java
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jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/CollectionWrapper.java
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jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/v2/ContextsCatalog.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/v2/Property.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/StringHelper.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/oxm/record/json/JsonParserReader.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLMarshaller.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/descriptors/DescriptorHelper.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/AggregateObjectMapping.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/OneToOneMapping.java
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*/
/**
   * INTERNAL:
   * Indicate whether app. server should unwrap connection
   * to use lob locator.
   * No need to unwrap connection because
   * writeLob method doesn't use oracle proprietary classes.
   */

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```
/**
   * This property is used to specify proxy type that should be passed to OarcleConnection.openProxySession
method.
   * Requires Oracle jdbc version 10.1.0.2 or later.
   * Requires Oracle9Platform or later as a database platform
   * (TARGET_DATABASE property value should be TargetDatabase.Oracle9 or later).
   * The valid values are:
   * OracleConnection.PROXYTYPE_USER_NAME,
OracleConnection.PROXYTYPE_DISTINGUISHED_NAME, OracleConnection.PROXYTYPE_CERTIFICATE.
    * Property property corresponding to the specified type should be also provided:
   * OracleConnection.PROXY_USER_NAME, OracleConnection.PROXY_DISTINGUISHED_NAME,
OracleConnection.PROXY_CERTIFICATE.
   * Typically these properties should be set into EntityManager (either through createEntityManager method or
   * using proprietary setProperties method on EntityManagerImpl) - that causes EntityManager to use proxy
connection for
   * writing and reading inside transaction.
   * If proxy-type and the corresponding proxy property set into EntityManagerFactory then all connections
   * created by the factory will be proxy connections.
   * The property cannot be applied to existing active persistence unit context.
   * The context could be removed by calling clear method on the EntityManager when there is no active
transaction.
   */
```

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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/databaseaccess/InOutputParameterForCallableStatement.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/DirectCollectionMapping.java
*
 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/oracle/plsql/PLSQLStoredProcedureCall.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/sessions/server/ClientSession.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/databaseaccess/BindCallCustomParameter.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/descriptors/DescriptorQueryManager.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/databaseaccess/OutputParameterForCallableStatement.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/tools/schemaframework/StoredProcedureDefinition.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/Oracle8Platform.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/Oracle11Platform.java
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 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/queries/ReportItem.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/databaseaccess/InParameterForCallableStatement.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/config/QueryHints.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/DBasePlatform.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/queries/QueryRedirector.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/eis/EISPlatform.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/oxm/record/UnmarshalRecordImpl.java
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 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/NamespaceResolver.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/eis/DOMRecord.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/oxm/record/XMLStreamReaderReader.java
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* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/indirection/UnitOfWorkValueHolder.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/eis/EISAccessor.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/MergeManager.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/descriptors/copying/CopyPolicy.java
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* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/queries/DatasourceCallQueryMechanism.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/mappings/foundation/AbstractDirectMapping.java
*
/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/descriptors/ClassDescriptor.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/identitymaps/QueueableWeakCacheKey.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/record/AbstractMarshalRecord.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/config/TunerType.java

* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/json/JsonStructureSource.java
*
/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/SerializedConverters.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/expressions/TreatAsExpression.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/Descriptor.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/descriptors/SerializedObjectPolicyWrapper.java
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* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/oxm/record/AbstractUnmarshalRecord.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/json/JsonObjectBuilderResult.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/record/UnmarshalRecord.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/SerializedObject.java
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* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/core/mappings/transformers/CoreFieldTransformer.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/json/JsonArrayBuilderResult.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/descriptors/SerializedObjectPolicy.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/config/CommitOrderType.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/JPARSErrorCodes.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/XMLUnmarshaller.java
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jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/Parameter.java
* /org-eclipse-persistence-core-2-7-8-sources-
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* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/descriptors/AbstractSerializedObjectPolicy.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/annotations/SerializedConverter.java
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/org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/ItemLinks.java
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jar/org/eclipse/persistence/exceptions/i18n/JPARSExceptionResource.java

* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/core/sessions/CoreSessionEventListener.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/jpa/rs/metadata/model/LinkTemplate.java
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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/oxm/record/ExtendedResult.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/oxm/record/JsonGeneratorRecord.java
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 /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/sessions/ResultSetRecord.java
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/**
   * The "<code>eclipselink.oracle.proxy-type</code>" property is used to
   * specify proxy type that should be passed to
   * OracleConnection.openProxySession method. Requires Oracle JDBC version
   * 10.1.0.2 or later. Requires Oracle9Platform or later as a database
   * platform (TARGET_DATABASE property value should be TargetDatabase.Oracle9
   * or later).
   * <p>
   * Values:
   *

   * oracle.jdbc.OracleConnection.PROXYTYPE_USER_NAME,
   * oracle.jdbc.OracleConnection.PROXYTYPE_DISTINGUISHED_NAME,

```
   * <li>oracle.jdbc.OracleConnection.PROXYTYPE_CERTIFICATE.
   * </ul>
   * <p>
   * Property values corresponding to the specified type should be also
   * provided:
   * <ul>
   * <li>oracle.jdbc.OracleConnection.PROXY_USER_NAME,
   * <li>oracle.jdbc.OracleConnection.PROXY_DISTINGUISHED_NAME,
   * <li>oracle.jdbc.OracleConnection.PROXY_CERTIFICATE.
   * </ul>
   * <p>
   * Typically these properties should be set into EntityManager (either
   * through createEntityManager method or using proprietary setProperties
   * method on EntityManagerImpl) - that causes EntityManager to use proxy
   * connection for writing and reading inside transaction. If proxy-type and
   * the corresponding proxy property set into EntityManagerFactory then all
   * connections created by the factory will be proxy connections.
   */
```

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* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/exceptions/ConversionException.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/sessions/coordination/RemoteCommandManager.java
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/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/AggregateMapping.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/internal/localization/i18n/ToStringLocalizationResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/dynamic/DynamicClassLoader.java

* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/logging/AbstractSessionLog.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/platform/server/was/WebSphere_7_Platform.java
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jar/org/eclipse/persistence/exceptions/i18n/SDOExceptionResource.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/mappings/CollectionMapping.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/descriptors/ObjectBuilder.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/xml/XMLPlatformFactory.java
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/org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/localization/TraceLocalization.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/WriteLockManager.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/internal/helper/Helper.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/tools/PackageRenamer.java
* /org-eclipse-persistence-core-2-7-8-sources-
jar/org/eclipse/persistence/exceptions/i18n/ExceptionMessageGenerator.java
* /org-eclipse-persistence-core-2-7-8-sources-jar/org/eclipse/persistence/platform/database/MySQLPlatform.java
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1.262 java-cc 3.2

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1.263 jradius-client 2.0.0

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1.264 bsf 2.4.0-4.1.el6

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1.265 jaxb-api 2.2.1

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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Messages.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEventHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/DatatypeConverter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Unmarshaller.java

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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/Messages.java
*
 /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/PrintConversionEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/JAXBResult.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBContext.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/ValidationEventLocator.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/UnmarshalException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/NotIdentifiableEvent.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
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 /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/DatatypeConverterInterface.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/PropertyException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBException.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/Validator.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/util/ValidationEventCollector.java
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlNsForm.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlRegistry.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlRootElement.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBIntrospector.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlType.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElement.java
*
 /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlNs.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAttribute.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/JAXBElement.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementRefs.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlSchema.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlValue.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElementDecl.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlElements.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapter.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlTransient.java
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/DomHandler.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAnyElement.java
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* /jaxb-api-2-2-1-sources-1-jar/javax/xml/bind/annotation/XmlAccessorOrder.java
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1.270 json-smart 2.3.1

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Manifest-Version: 1.0
Bnd-LastModified: 1619958065632
Build-Jdk: 11.0.11
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 i
ndependent but uses conventions that are familiar to programmers of t
he C-family of languages, including C, C++, C#, Java, JavaScript, Per
l, 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:
 2.3.1
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.js
on.parser,net.minidev.json.reader,net.minidev.json.writer";version="2
.3.1",net.minidev.json.annotate;version="2.3.1",net.minidev.json.pars
er;uses:="net.minidev.json.writer";version="2.3.1",net.minidev.json.r
eader;uses:="net.minidev.json";version="2.3.1",net.minidev.json.write
r;uses:="net.minidev.json,net.minidev.json.parser";version="2.3.1"
Import-Package: net.minidev.asm;version="[2.3,3)",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

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* /json-smart-2-3-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
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1.271 json-path 2.4.0

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Found in path(s):
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidJsonException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidCriteriaException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPathException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java
*
 /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Utils.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/PathLateBindingValue.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ParseContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Configuration.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/EvaluationListener.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/RootPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JettisonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/CompiledPath.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/WriteContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Option.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java

* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidPathException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/Path.java
*
/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ValueCompareException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Predicate.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JsonSmartMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/ReadContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Filter.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/ScanPathToken.java
*
/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/cache/LRUCache.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/InvalidModificationException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/WildcardPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Criteria.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/TypeRef.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/EvaluationContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/DocumentContext.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java
*
/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/JsonFormatter.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/MappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/mapper/GsonMappingProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/JsonPath.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/EvaluationContextImpl.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/PathNotFoundException.java
* /json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/MapFunction.java

1.272 activation 1.1

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1.273 jackson 2.12.5

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.274 zstd-jni 1.5.0-4

1.274.1 Available under license :

BSD-2-Clause

1.275 zookeeper-jute 3.6.3

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*/
```

Found in path(s):

```
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/ParseException.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Token.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Rcc.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/RccConstants.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java
```

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```
options {
STATIC=false;
}

PARSER_BEGIN(Rcc)
/**
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```

```
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*/

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import
 java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;

@SuppressWarnings("unused")
public class Rcc {
  private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
  private static String curDir = System.getProperty("user.dir");
  private static String curFileName;
  private static String curModuleName;

  public static void main(String args[]) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile=null;

    for (int i=0; i<args.length; i++) {
      if ("-l".equalsIgnoreCase(args[i]) ||
        "--language".equalsIgnoreCase(args[i])) {
        language = args[i+1].toLowerCase();
        i++;
      } else {
        recFiles.add(args[i]);
      }
    }
    if (!"c++".equals(language) && !"java".equals(language)
 && !"c".equals(language)) {
      System.out.println("Cannot recognize language:" + language);
```

```
        System.exit(1);
      }
      if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
      }
      for (int i=0; i<recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
          curFile = parseFile(file);
        } catch (FileNotFoundException e) {
          System.out.println("File " + recFiles.get(i) + " Not found.");
          System.exit(1);
        } catch (ParseException e) {
          System.out.println(e.toString());
          System.exit(1);
        }
        System.out.println(recFiles.get(i) + " Parsed Successfully");
        try {
          curFile.genCode(language, new File("."));
        } catch (IOException e) {
          System.out.println(e.toString());
           System.exit(1);
        }
      }
    }

    public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
      curDir = file.getParent();
      curFileName = file.getName();
      FileReader reader = new FileReader(file);
      try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
      } finally {
        try {
          reader.close();
        } catch (IOException e) {
        }
      }
    }
}

PARSER_END(Rcc)

SKIP :
```

```
{
 " "
| "\t"
| "\n"
| "\r"
}

SPECIAL_TOKEN :
{
 "//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
 <("\n" | "\r" | "\r\n" )> : DEFAULT
}

<WithinOneLineComment> MORE :
{
 <~[]>
}

SPECIAL_TOKEN :
{
 "/*" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN :
{
 "*/" : DEFAULT
}

<WithinMultiLineComment> MORE :
{
 <~[]>
}

TOKEN :
{
   <MODULE_TKN:
 "module">
|   <RECORD_TKN: "class">
|   <INCLUDE_TKN: "include">
|   <BYTE_TKN: "byte">
|   <BOOLEAN_TKN: "boolean">
|   <INT_TKN: "int">
|   <LONG_TKN: "long">
|   <FLOAT_TKN: "float">
```

```
|  <DOUBLE_TKN: "double">
|  <USTRING_TKN: "ustring">
|  <BUFFER_TKN: "buffer">
|  <VECTOR_TKN: "vector">
|  <MAP_TKN: "map">
|  <LBRACE_TKN: "{">
|  <RBRACE_TKN: "}">
|  <LT_TKN: "<">
|  <GT_TKN: ">">
|  <SEMICOLON_TKN: ";">
|  <COMMA_TKN: ",">
|  <DOT_TKN: ".">
|  <CSTRING_TKN: "\"" ( ~["\""] )+ "\"">
|  <IDENT_TKN: ["A"-"Z","a"-"z"] (["a"-"z","A"-"Z","0"-"9","_"])*>
}

JFile Input() :
{
  ArrayList<JFile> ilist = new ArrayList<JFile>();
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JFile i;
  ArrayList <JRecord>l;
}
{
  (
     i = Include()
     { ilist.add(i); }
  |  l = Module()
     { rlist.addAll(l); }
  )+
  <EOF>
  { return new JFile(curFileName, ilist, rlist); }
}

JFile Include() :
{
  String fname;
  Token t;
}
{
  <INCLUDE_TKN>
   t = <CSTRING_TKN>
  {
     JFile ret = null;
     fname = t.image.replaceAll("^\"", "").replaceAll("\"$","");
     File file = new File(curDir, fname);
     String tmpDir = curDir;
     String tmpFile = curFileName;
```

```
      curDir = file.getParent();
      curFileName = file.getName();
      try {
         FileReader reader = new FileReader(file);
         Rcc parser = new Rcc(reader);
         try {
            ret = parser.Input();
            System.out.println(fname + " Parsed Successfully");
         } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
         }
         try {
            reader.close();
         } catch (IOException e) {
         }
      } catch (FileNotFoundException e) {
         System.out.println("File " + fname +
            " Not found.");
         System.exit(1);
      }
      curDir = tmpDir;
      curFileName =
 tmpFile;
      return ret;
   }
}

ArrayList<JRecord> Module() :
{
   String mName;
   ArrayList<JRecord> rlist;
}
{
   <MODULE_TKN>
   mName = ModuleName()
   { curModuleName = mName; }
   <LBRACE_TKN>
   rlist = RecordList()
   <RBRACE_TKN>
   { return rlist; }
}

String ModuleName() :
{
   String name = "";
   Token t;
}
```

```
{
  t = <IDENT_TKN>
  { name += t.image; }
  (
     <DOT_TKN>
     t = <IDENT_TKN>
     { name += "." + t.image; }
  )*
  { return name; }
}

ArrayList<JRecord> RecordList() :
{
  ArrayList<JRecord> rlist = new ArrayList<JRecord>();
  JRecord r;
}
{
  (
     r = Record()
     { rlist.add(r); }
  )+
  { return rlist; }
}

JRecord Record() :
{
  String rname;
  ArrayList<JField> flist = new ArrayList<JField>();
  Token t;
  JField f;
}
{
  <RECORD_TKN>
  t = <IDENT_TKN>
  { rname = t.image; }
  <LBRACE_TKN>
  (
     f = Field()
     { flist.add(f); }
     <SEMICOLON_TKN>
  )+
  <RBRACE_TKN>
   {
     String fqn = curModuleName + "." + rname;
     JRecord r = new JRecord(fqn, flist);
     recTab.put(fqn, r);
     return r;
  }
```

```
}

JField Field() :
{
  JType jt;
  Token t;
}
{
  jt = Type()
  t = <IDENT_TKN>
  { return new JField(jt, t.image); }
}

JType Type() :
{
  JType jt;
  Token t;
  String rname;
}
{
  jt = Map()
  { return jt; }
| jt = Vector()
  { return jt; }
| <BYTE_TKN>
  { return new JByte(); }
| <BOOLEAN_TKN>
  { return new JBoolean(); }
| <INT_TKN>
  { return new JInt(); }
| <LONG_TKN>
  { return new JLong(); }
| <FLOAT_TKN>
  { return new JFloat(); }
| <DOUBLE_TKN>
  { return new JDouble(); }
| <USTRING_TKN>
  { return new JString(); }
| <BUFFER_TKN>
  { return new JBuffer(); }
| rname = ModuleName()
  {
     if (rname.indexOf('.', 0) < 0) {
        rname = curModuleName + "." + rname;
     }
     JRecord r = recTab.get(rname);
     if (r == null) {
        System.out.println("Type
```

```
 " + rname + " not known. Exiting.");
          System.exit(1);
      }
      return r;
  }
}

JMap Map() :
{
  JType jt1;
  JType jt2;
}
{
  <MAP_TKN>
  <LT_TKN>
  jt1 = Type()
  <COMMA_TKN>
  jt2 = Type()
  <GT_TKN>
  { return new JMap(jt1, jt2); }
}

JVector Vector() :
{
  JType jt;
}
{
  <VECTOR_TKN>
  <LT_TKN>
  jt = Type()
  <GT_TKN>
  { return new JVector(jt); }
}
```

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*/

Found in path(s):
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SyncResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/MultiTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/data/Stat.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/TxnDigest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ErrorResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetChildrenResponse.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetACLRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetWatches.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/RequestHeader.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CreateRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetDataResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/Txn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/data/StatPersisted.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ConnectResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/TxnHeader.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/data/ACL.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/WatcherEvent.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java

* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/persistence/FileHeader.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CreateResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/data/Id.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetACLRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/DeleteRequest.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ConnectRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/AuthPacket.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java
*
 /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/Create2Response.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetWatches2.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SyncRequest.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/MultiHeader.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/CreateTxn.java
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 /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JCompType.java
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* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Utils.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CGenerator.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CppGenerator.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JType.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/RecordReader.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/BinaryInputArchive.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/BinaryOutputArchive.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JMap.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JVector.java
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 /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JFile.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JBoolean.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JByte.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CSharpGenerator.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JInt.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JDouble.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/InputArchive.java
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* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Index.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/RecordWriter.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JRecord.java
* /zookeeper-jute-3-6-3-sources-jar/org/apache/jute/OutputArchive.java
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1.281 unbound 1.13.1

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1.282 pythonurllib 1.24.2-5.el8

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Contributions to the urllib3 project

Creator & Maintainer

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Contributors

In chronological order:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

requests like GET.

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

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

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

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

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

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

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

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

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
improvements, spelling fixes, Travis config.

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

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

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

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

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

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

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

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

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

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

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

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

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

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

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

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

* Akamai
 (through Jesse Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance

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

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

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

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

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

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

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

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

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

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

1.283 nspr 4.32.0-1.el8_4

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1.302 file 5.33-20.el8

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1.303 kerberos 1.18.2-14.el8

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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menu, a prominent item in the list meets this criterion.

1. Source Code.

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

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

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

c) Convey individual copies of the object code with a copy of the
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

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place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same
way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
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Corresponding Source. Regardless of what server hosts the
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typical or common use of that class of product, regardless of the status
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1.305 pcre 8.42-6.el8

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1.306 libsepol 2.9-3.el8

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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/SqlProvider.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java

* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
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/spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java

* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/SqlValue.java
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/spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /spring-jdbc-5-2-19-release-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and
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* by Rod Johnson (Wrox, 2002).
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/SqlParameter.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/object/SqlQuery.java
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/spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
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 /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
*
 /spring-jdbc-5-2-19-release-sources-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /spring-jdbc-5-2-19-release-sources-
jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con a JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @return a Map of input parameters, keyed by name (never {@code null})
  * @throws SQLException if an SQLException is encountered setting
  * parameter values (that is, there's no need to catch SQLException)
  */
```

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*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or
 wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/
```

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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p><b>NOTE</b>: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
  */
```

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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
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* /spring-jdbc-5-2-19-release-sources-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
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1.314 spring-tx 5.2.19.RELEASE

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jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
*
/spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/annotation/Propagation.java
* /spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /spring-tx-5-2-19-release-sources-
jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
* /spring-tx-5-2-19-release-sources-
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
*
/spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/TransactionManager.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/TransactionStatus.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/ReactiveTransaction.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/TransactionOperations.java

* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
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/spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/TransactionExecution.java
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/spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/TransactionDefinition.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/core/InteractionCallback.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /spring-tx-5-2-19-release-sources-
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* /spring-tx-5-2-19-release-sources-
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/ResourceHolderSupport.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/dao/support/DaoSupport.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
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/spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/InvalidTimeoutException.java
* /spring-tx-5-2-19-release-sources-
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
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* /spring-tx-5-2-19-release-sources-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /spring-tx-5-2-19-release-sources-jar/org/springframework/transaction/HeuristicCompletionException.java
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1.317 log4j-slf4j-impl 2.17.1

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1.319 libcap-ng 0.7.11-1.el8

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1.324 ncurses 6.1-9.20180224.el8

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1.326 open-ldap 2.4.46-18.el8

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1.327 keyutils 1.5.10-9.el8

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

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

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

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1.328 tpm2-tss-tcti 2.3.2-4.el8

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1.329 libxcrypt 4.1.1-6.el8

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be

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1.330 libmodulemd 2.13.0-1.el8

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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TokenType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
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 /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
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 /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/EntityType.java
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 /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LengthFacet.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListValueType.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatype.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
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 /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthType.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/SerializationContext.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntType.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Discrete.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ConcreteType.java
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* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDType.java
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*
 /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Match.java
* /xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/REUtil.java
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    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.

```
   * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
   * for more details.
   */
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* /netty-transport-native-epoll-4-1-63-final-sources-jar/io/netty/channel/epoll/Native.java

1.337 jackson-module-parameter-names 2.12.6

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1.341 accessors-smart 2.3.1

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* /accessors-smart-2-3-1-sources-jar/net/minidev/asm/ASMUtil.java
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1.342 byte-buddy 1.10.20

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1.348 jaxws-rt-bundle 2.3.1

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1.357 junit-jupiter-engine 5.8.2

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1.358 spring-plugin-metadata 2.0.0.RELEASE

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1.359 classgraph 4.8.83

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* /classgraph-4-8-83-sources-jar/io/github/classgraph/HasName.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/JarUtils.java

* /classgraph-4-8-83-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java
*
 /classgraph-4-8-83-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClasspathElementZip.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClasspathElementFileDir.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/ClassFields.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/types/Parser.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java
* /classgraph-4-8-83-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/MethodParameterInfo.java
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 /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClasspathElementModule.java
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* /classgraph-4-8-83-sources-
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* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/FastPathResolver.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/TypeVariableSignature.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/FileUtils.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/ArrayClassInfo.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClassGraph.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ModuleReaderProxy.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/MappableInfoList.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClasspathElement.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/AnnotationParameterValue.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/MethodInfo.java
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 /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/MethodTypeSignature.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java

* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/AnnotationParameterValueList.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/FieldInfoList.java
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* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSClassLoaderHandler.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/Join.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClassGraphException.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/Classfile.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/TypeSignature.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/AnnotationInfo.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClassInfo.java
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 /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/StringUtils.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/ModulePathInfo.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/ReflectionUtils.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/ClassGraphClassLoader.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ScanResultObject.java
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* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
*
 /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/Id.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/FieldInfo.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/utils/LogNode.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/MethodInfoList.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
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/classgraph-4-8-83-sources-jar/io/github/classgraph/ScanResult.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ModuleInfoList.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/AnnotationEnumValue.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/ModuleRef.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
*
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/InfoList.java
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* /classgraph-4-8-83-sources-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
* /classgraph-4-8-83-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
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* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/Slice.java
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/classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
* /classgraph-4-8-83-sources-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
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*
* With contributions from @cpierceworld (#414)
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1.361 swagger-annotations 2.1.2

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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Parameters.java
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthScope.java

* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Servers.java

1.362 log4j-1.2-api 2.17.1

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1.363 simpleclient 0.12.0

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Manifest-Version: 1.0
Bnd-LastModified: 1630271517117
Build-Jdk: 11.0.12
Built-By: fabian

Bundle-Description: Core instrumentation library for the simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient
Bundle-SymbolicName: io.prometheus.simpleclient
Bundle-Version: 0.12.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client;uses:="io.prometheus.client.exempla
rs";version="0.12.0",io.prometheus.client.exemplars;uses:="io.prometheu
s.client.exemplars.tracer.common";version="0.12.0"
Import-Package: io.prometheus.client.exemplars.tracer.common;version="[0
.12,1)",io.prometheus.client.exemplars.tracer.otel;version="[0.12,1)",i
o.prometheus.client.exemplars.tracer.otel_agent;version="[0.12,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.364 simpleclient-common 0.12.0

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1.365 microdnf 3.8.0-2.el8

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathExpression.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathResult.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
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jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
*

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
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jar/org/apache/xerces/xni/parser/XMLInputSource.java
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jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
*
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jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
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*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ObjectFactory.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
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*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLChar.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XML11Char.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/AttrNSImpl.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/SecuritySupport.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/SecuritySupport12.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SecuritySupport12.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/SecuritySupport12.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xinclude/SecuritySupport12.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/SecuritySupport12.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
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 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
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 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
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*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/XMLParser.java
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*/
/**
   * Create a new <code>LSParser</code>. The newly constructed parser may
   * then be configured by means of its <code>DOMConfiguration</code>
   * object, and used to parse documents by means of its <code>parse</code>
   * method.
   * @param mode The <code>mode</code> argument is either
   *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
   *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code>
 then the
   *   <code>LSParser</code> that is created will operate in synchronous
   *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in asynchronous
   *   mode.

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

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/ls/DOMImplementationLS.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
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jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java

*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/SymbolHash.java
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jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
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*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    * then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by
 means of its <code>parse</code>
    *  method.
    * @param mode  The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML
 Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
    *   error-handler</a>"
 configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
```

```
   *   parameter on the new created <code>LSParser</code> contains a
   *   reference to the default error handler.
   * @exception DOMException
   *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
   *   not supported.
  */
```

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jar/org/apache/xerces/xs/XSModelGroupDefinition.java
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jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
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/**
* DOM Level 3 WD Experimental:
* The DOM Level 3 specification is at the stage

* of Working Draft, which represents work in
* progress and thus may be updated, replaced,
* or obsoleted by other documents at any time. <p>
* <code>XPathEvaluator</code>, which will provide evaluation of XPath 1.0
* expressions with no specialized extension
functions or variables. It is
* expected that the <code>XPathEvaluator</code> interface will be
* implemented on the same object which implements the <code>Document</code>
* interface in an implementation which supports the XPath DOM module.
* <code>XPathEvaluator</code> implementations may be available from other
* sources that may provide support for special extension functions or
* variables which are not defined in this specification. The methods of
* XPathExpression should be named with more-XPath- specific names because
* the interface will often be implemented by the same object which
* implements document.No change.The point of interfaces is to localize the
* implementing namespace. This would make the method names unnecessarily
* long and complex even though there are no conflicts in the interface
* itself. The new core method getInterface is designed for discovering
* interfaces of additional modules that may not be directly implemented on
* the objects
to which they are attached. This could be used to implement
* XPath on a separate object. The user only refers to the separate
* interfaces and not the proprietary aggregate implementation.Should entity
* refs be supported so that queries can be made on them?No change.We will
* not do this now. They are not part of the XPath data model. Note that
* they may be present in the hierarchy of returned nodes, but may not
* directly be requested or returned in the node set.What does createResult
* create when one wants to reuse the XPath?It is not useful.Removed method.
* Should ordering be a separate flag, or a type of result that can be
* requested. As a type of result, it can be better optimized in
* implementations.It makes sense as a type of result. Changed.Removed
* method.Implementing XPathEvaluator on Document can be a problem due to
* conflicts in the names of the methods.The working group finds no better
* solution. GetInterface in Level 3 permits the
object to be implemented
* separately. We should be committed to this. We will leave this issue open
* to see if we get more feedback on it.How does this interface adapt to
* XPath 2.0 and other query languages.No change.This interface is not
* intended to adapt to XPath 2.0 or other languages. The models of these
* are likely to be incompatible enough to require new APIs.For alternate
* implementations that can use this API, it can be obtained from different
* sources.Support for custom variables and functions would be very useful.
* No change.It is possible for an implementation to supply alternative
* sources of an XPathEvaluator that can be customized with a custom
* variable and function context. We do not specify how this is
* accomplished. It is too complex to address in this version of the XPath
* DOM.
* <p>See also the Document Object

Model (DOM) Level 3 XPath Specification.
*/

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/w3c/dom/xpath/XPathEvaluator.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
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jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/Constants.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/DOMParser.java
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*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
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*
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASModel.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASObject.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
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*
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
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jar/org/apache/xerces/util/SAXMessageFormatter.java
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jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
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 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
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 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java

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*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/ElementImpl.java
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jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
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jar/org/apache/xml/serialize/BaseMarkupSerializer.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/Version.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Printer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
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jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/XMLSerializer.java
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jar/org/apache/xerces/impl/dv/DVFactoryException.java
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jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
*
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jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
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*/
/**
   * used to check the 3 constraints against each complex type
   * (should be each model group):
   * Unique Particle Attribution, Particle Derivation (Restriction),
   * Element Declrations Consistent.
   */

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 path(s):
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jar/org/apache/xerces/dom/DeferredCommentImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
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jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
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jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
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jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/LCount.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/events/MutationEventImpl.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/TextImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CommentImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/DOMSerializer.java
*

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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/parsers/DTDParser.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/DeferredNode.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/LineSeparator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/dom/events/EventImpl.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Method.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xml/serialize/Serializer.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
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*
 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/io/UCSReader.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/util/SynchronizedSymbolTable.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
*
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 /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLStrongElement.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/wml/dom/WMLNoopElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLIElement.java

* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLAnchorElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLFieldsetElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLSetvarElement.java
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/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLPElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/wml/WMLElement.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/dom3/org/w3c/dom/NamedNodeMap.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/XNIException.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
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* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/NamespaceSupport.java
*
/xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-jar/org/apache/xerces/util/IntStack.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /xercesimpl-2-6-2-sources-jar-zip/xercesimpl-2-6-2-sources-
jar/org/apache/xerces/xni/parser/XMLComponent.java

1.367 qdox 1.12.1

1.367.1 Available under license :

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1.368 javax-annotation-api 1.3.2

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1.370 jackson-datatype-jsr310 2.13.2

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1.371 metrics 4.1.12.1

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1.372 jackson-annotations 2.13.2

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* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
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/classgraph-4-8-138-sources-jar/io/github/classgraph/ModuleInfoList.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/types/ParseException.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/ArrayClassInfo.java
* /classgraph-4-8-138-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/PackageInfoList.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/TypeArgument.java
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* /classgraph-4-8-138-sources-jar/io/github/classgraph/MethodTypeSignature.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/ScanResultObject.java
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* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
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* /classgraph-4-8-138-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
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* /classgraph-4-8-138-sources-jar/io/github/classgraph/InfoList.java
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/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassGraphException.java
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* /classgraph-4-8-138-sources-jar/io/github/classgraph/FieldInfo.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
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/classgraph-4-8-138-sources-jar/io/github/classgraph/ClassTypeSignature.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/ScanResult.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/FieldInfoList.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/ClassFields.java
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jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
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jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/Id.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
*
/classgraph-4-8-138-sources-jar/io/github/classgraph/TypeParameter.java
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* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java
* /classgraph-4-8-138-sources-jar/io/github/classgraph/CloseableByteBuffer.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
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* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
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* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/Slice.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
*
/classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /classgraph-4-8-138-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
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 <link rel="shortcut icon" href="../media/favicon.ico" />

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  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-1345454-1']);
  _gaq.push(['_trackPageview']);
  (function() {
   var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
   ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
   var
 s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
   })();
 </script>
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</head>

<body>
 <div id="pgContainerWrap">
  <div id="pgContainer">

   <span class="txtOffScreen"><a href="#pgContent" title="Skip site navigation" accesskey="1">Skip site
navigation</a> (1)</span>
   <span class="txtOffScreen"><a href="#pgContentWrap" title="Skip section navigation" accesskey="2">Skip
section navigation</a> (2)</span>

   <div id="pgHeaderContainer">

    <div id="pgSearch">

     <!-- Old pgjdbc form -->
     <form action="https://www.google.com/search" method="get">
      <input value="jdbc.postgresql.org" name="sitesearch" type="hidden" />
      <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue )
```

```
this.value=';' value="Google Search" accesskey="s" />
    <!-- <input onFocus="getBlank (this, 'Search the site with google');" size="25" name="q" id="query" type="text"
value="Search the
 site with google">&amp;nbsp; -->
                <input name="Search" value="Search" type="submit" />
   </form>

   <!-- New PostgreSQL form
   <form method="get" action="search/">
   <div>
    <h2 class="pgBlockHide"><label for="q">Search</label></h2>
    <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue )
this.value=';' value="Search" accesskey="s" />
    <input name="a" type="hidden" value="1"/>
    <input id="submit" name="submit" type="submit" value="Search" />
   </div>
   </form>
   -->

  </div> <!-- pgSearch -->
  <br />

  <div id="pgHeader">
   <div id="pgHeaderLogoLeft">
    <img alt="PostgreSQL" height="80" width="390" src="../media/img/layout/hdr_left3.png" usemap="#maplinks" />
    <map name="maplinks">
     <area shape="rect" coords="0,0,231,80" alt="PostgreSQL" href="https://postgresql.org" />
     <area shape="rect" coords="232,0,390,80" alt="PostgreSQL JDBC Driver" href="https://jdbc.postgresql.org"
/>
    </map>
   </div>
   <div id="pgHeaderLogoRight">
    <a href="https://postgresql.org">
     <img width="210" height="80" alt="The world's most advanced open source database."
src="../media/img/layout/hdr_right.png" />
    </a>
   </div>
  </div> <!-- pgHeader -->

  <div id="pgTopNav">
   <div id="pgTopNavLeft">
    <img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_lft.png" />
   </div>
   <div id="pgTopNavRight">
    <img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_rgt.png" />
   </div>
   <ul id="pgTopNavList">
    <li><a href="../index.html" title="Home">Home</a></li>
```

About
Download
Documentation
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<a
href="../development/development.html" title="Development">Development

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1.382 jackson-databind 2.13.2.2

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1.383 alsa 1.2.6.1-3.el8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Implementation-Title: ANTLR 4 Runtime
Implementation-Version: 4.10.1
Implementation-Vendor: ANTLR
Automatic-Module-Name: org.antlr.antlr4.runtime

Bnd-LastModified: 1650059202027
Build-Jdk: 11.0.13
Built-By: parrt
Bundle-Description: The ANTLR 4 Runtime
Bundle-DocURL: http://www.antlr.org
Bundle-License: http://www.antlr.org/license.html
Bundle-ManifestVersion: 2
Bundle-Name: ANTLR 4 Runtime
Bundle-SymbolicName: org.antlr.antlr4-runtime
Bundle-Vendor: ANTLR
Bundle-Version: 4.10.1
Export-Package: org.antlr.v4.runtime;uses:="org.antlr.v4.runtime.atn,org
.antlr.v4.runtime.dfa,org.antlr.v4.runtime.misc,org.antlr.v4.runtime.tr
ee,org.antlr.v4.runtime.tree.pattern";version="4.10.1",org.antlr.v4.run
time.misc;uses:="org.antlr.v4.runtime";version="4.10.1",org.antlr.v4.ru
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 on="4.10.1",org.antlr.v4.runtime.tree.xpath;uses:="org.antlr.v4.runtime
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rg.antlr.v4.runtime.tree.pattern;uses:="org.antlr.v4.runtime,org.antlr.
v4.runtime.misc,org.antlr.v4.runtime.tree";version="4.10.1",org.antlr.v
4.runtime.dfa;uses:="org.antlr.v4.runtime,org.antlr.v4.runtime.atn";ver
sion="4.10.1",org.antlr.v4.runtime.atn;uses:="org.antlr.v4.runtime,org.
antlr.v4.runtime.dfa,org.antlr.v4.runtime.misc";version="4.10.1"
Implementation-URL: http://www.antlr.org/runtime/antlr4-runtime
Implementation-Vendor-Id: org.antlr
Import-Package: org.antlr.v4.gui,org.antlr.v4.runtime,org.antlr.v4.runti
me.atn,org.antlr.v4.runtime.dfa,org.antlr.v4.runtime.misc,org.antlr.v4.
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e.xpath
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

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1.388 zlib 1.2.11-18.el8_5

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1.394 which 2.21-17.el8

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1.396 shadow-utils 4.6-16.el8

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1.397 elfutils 0.186-1.el8

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1.398 libuser 0.62-24.el8

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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Linking with OpenSSL

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1.406 texinfo 6.5-7.el8

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(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
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1.407 python-pip 9.0.3-22.el8

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above 2.1.1 2001-now
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

Because

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

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

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

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

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

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

4. You may copy and distribute the Library (or a portion or

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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  Here is a sample; alter the names:

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

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

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source

may be on a different server (operated by you or a third party)
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as a System Library, need not be
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Version 3, 29 June 2007

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1.418 gpgme 1.13.1-11.el8

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 :END:

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OGSma`YUs1h<_)(12:protected-at15:20130812T105134)))
cython
;;;; gpgme-package.lisp

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;;; Conventions:
;;;
;;; gpg-error is used for error handling.

```
;;;
;;; Standard I/O streams are used for input and output.

(defpackage #:gpgme
 (:use #:common-lisp #:cffi #:gpg-error)
  (:import-from #:trivial-garbage
                #:finalize)
 (:export #:check-version
   #:*version*
   #:context
   #:protocol
   #:armorp
   #:textmodep
   #:+include-certs-default+
   #:include-certs
   #:keylist-mode
   #:signers
   #:sig-notations
   #:with-context
   #:key-data
   #:get-key
   #:op-encrypt
   #:op-decrypt
   #:op-sign
   #:op-verify
   #:op-import
   #:op-export))
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename index.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@end ifnottex
```

@menu
* GPGME Python Bindings::

@detailmenu
--- The Detailed Node Listing ---

GPGME Python Bindings

* Contents::

@end detailmenu
@end menu

@node GPGME Python Bindings
@chapter GPGME Python Bindings

@menu
* Contents::
@end menu

@node Contents
@section Contents

@itemize
@item
@uref{short-history, A short history of the project}
@item
@uref{what-is-new, What's New}
@itemize
@item
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)
@end itemize
@item
@uref{what-was-new, What Was New}
@item
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}
@end
 itemize

@bye
2011-12-02 Werner Koch <wk@g10code.com>

 NB: ChangeLog files are no longer manually maintained. Starting
 on December 1st, 2011 we put change information only in the GIT
 commit log, and generate a top-level ChangeLog file from logs at
 "make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

* gpgme.texi (I/O Callback Example): Fix example code.

* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference
GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

* uiserver.texi (UI Server Encrypt): Add --expect-sign option to
PREP_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

* gpgme.texi (Exporting Keys): Document gpgme_op_export_keys.
(Importing Keys): Document gpgme_op_import_keys.
(Data Buffer Meta-Data): Document URL encodings.

2009-05-28
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Document selftest error.
(Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
GPGME_ENCRYPT_NO_ENCRYPT_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Replace path by file_name.

2008-11-28 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Change description of the return
value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Add option

--protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancellation): Document gpgme_cancel_async.

2008-06-25
Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Updated example to the current API.
Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Describe
START_CONFDIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

* gpgme.texi: Use @copying command. Change license to
GPLv3. Include protocol specis from GpgOL and GPGEx. Minor
cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (File Based Data Buffers): Document the need for
blocking operations.
(Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Rename snippet function to
init_gpgme.
(I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Document that data encoding affects some output data
objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocols and Engines):
Document GPGME_PROTOCOL_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Describe chain_model.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgme.texi (Library Version Check): Add remark that the socket
layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Fix documentation of
gpgme_strerror_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Data Buffer I/O Operations): Fixed entry for
gpgme_data_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Clarify that
gpgme_data_release_and_get_mem destroys DH unconditionally.

2005-03-24
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Make example code compatible
to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix inverted condition in
description.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Document pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* gpgme.texi (Key Management): Updated to match the fixes for
subkey fingerprints and theg secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Document gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add the new member notations of
gpgme_sig_key_t.
(Key Listing Mode): Document GPGME_KEYLIST_MODE_SIG_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Enclose all return parameters of deftypefuns in
curly brackets.

* gpgme.texi (Signature Notation Data): New
section.
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data):
New subsections.

* gpgme.texi: Replace plaintext_filename with file_name.

* gpgme.texi (Key Management): Document is_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Decrypt): Add plaintext_filename to
gpgme_decrypt_result_t.
(Verify): Likewise for gpgme_verify_result_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Add information about new fields in
gpgme_signature_t.

* gpgme.texi (Decrypt): Add gpgme_recipient_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Fix return type of
gpgme_set_keylist_mode.
Reported by "Sergio" <ml_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Included Certificates): Document
GPGME_INCLUDE_CERTS_DEFAULT.

2005-01-12 Marcus
Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Configuration): New section.
(Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* lesser.texi (Library Copying): Change from @appendixsec to
@appendix.
* gpgme.texi (Features): Change reference to GPL to one to LGPL.

* Makefile.am: Change license to LGPL.
(gpgme_TEXINFOS): Replace gpl.texi with lesser.texi.

* gpgme.texi: Change license to LGPL (also for documentation of
GPGME's license).
* lesser.texi: New file.
* gpl.texi: File removed.

* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported
by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme_TEXINFOS): Remove fdl.texi.
* gpgme.texi: Do not include fdl.texi. Change license to GPL.
* fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Change type of keylist_mode in
gpgme_key_t to gpgme_keylist_mode_t.

2004-09-28
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document
GPG_ERR_NOT_IMPLEMENTED.

* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Verify): Fix gpgme_get_key example (ancient
force_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Elaborate on the length restrictions
on search patterns.

* gpgme.texi (Decrypt and Verify): Document the NO_DATA error
code.
(Verify): Document the relationship between gpgme_op_verify_result
and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.text (Verify): Document GPG_ERR_CERT_REVOKED status.

* gpgme.texi (Decrypt): Add note about new field wrong_key_usage
of gpgme_decrypt_result_t.

* gpgme.texi (Key Management): Add
note about new field
keylist_mode of gpgme_key_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Correct type of member wrong_key_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

* gpgme.texi (Verify): Fix type of gpgme_op_verify_result.

* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Fix the instruction when to
set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.texi (Key Listing Mode): Doc KEYLIST_MODE_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

* gpgme.texi: A couple of small fixes regarding the Largfile
Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Largefile Support): New
section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Rename member class in
gpgme_key_sig_t to sig_class.
(Creating a Signature): Likewise for gpgme_signature_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

* gpgme.texi (Listing Keys): Minor clarification for
gpgme_get_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Correct documentation on memory
synchronization requirement.

* gpgme.texi (Locale): New section.
(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add gpgme_strerror_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

*
gpgme.texi (Header): We don't use the assuan namespace anymore.
Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Change type of member class
to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Get error code from SIG->status in the code
for gpgme_get_sig_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add can_authenticate flag.

* gpgme.texi (Listing Keys): Document GPG_ERR_AMBIGUOUS_NAME for
gpgme_get_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (EXTRA_DIST): Remove variable.

* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only
possible with symmetric encryption, change the wording to reflect
that.

* gpgme.texi (Creating a Signature): Document

GPG_ERR_UNUSABLE_SECKEY.

* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign
operations in result function.
(Creating
a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Remove word duplication.
(Listing Keys): Remove mentioning of force argument.
(Verify): Don't mention r_stat. Fix some typos.
(Decrypt and Verify): Correct info how to get the result. Don't
mention r_stat.
(Manipulating Data Buffers): Fix documentation of return value.
(Listing Keys): Update examples.
(Decrypt): Result might also be available when operation failed.
(Verify): Result might also be available when operation failed.
All spotted by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Clarify difference between can_sign
and can_certify.
(Information About Keys): Likewise for GPGME_ATTR_CAN_SIGN and
GPGME_ATTR_CAN_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Progress
Meter Callback): Change return type of
gpgme_progress_cb_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add 2003 to copyright notice.

* gpgme.texi (Header): Fix name space documentation on
libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove reference to
gpgme_recipients_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Crypto Operations): Rename gpgme_invalid_user_id_t
to gpgme_invalid_key_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Change error codes to GPG_ERR_* variants.
(Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change and document prototypes.
Add new gpgme_op_export_ext and gpgme_op_export_ext_start
variants.
(Selecting Recipients): Section removed.
(Encrypting a Plaintext): Change prototypes and document the
changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

*
gpgme.texi (Exporting Keys): Change argument type from
gpgme_recipient_t to gpgme_user_id_t.
(Encrypting a Plaintext): Likewise.
(Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocol Selection): Do not use @acronym in @node
because that breaks texi2dvi.

* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add
_GPGME to namespace prefix.
* gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document what happens if key is not
found.

* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Remove reference to
gpgme_get_op_info.
(Detailed Results): Subsection removed.

* gpgme.texi (Key Listing Mode): Add GPGME_KEYLIST_MODE_SIGS.
(Manipulating
Keys): Add obsoleteness note.
(Key Signatures): Likewise.
(Information About Keys): Likewise.
(Key Management): Add new data types GpgmeSubkey, GpgmeKeySig,
GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Remove force_update argument from
gpgme_get_key.

* gpgme.texi (Trust Item Management): Add data members of
GpgmeTrustItem type.
(Information About Trust Items): Add note about obsoleteness.
(Manipulating Trust Items): Add gpgme_trust_item_ref and
gpgme_trust_item_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Rewritten to take into account new and
deprecated functions and data types.

* gpgme.texi (Decrypt): Descript gpgme_op_decrypt_result and
GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Add info about
GpgmeEncryptResult and gpgme_op_encrypt_result.

* gpgme.texi
(Creating a Signature): Add info about
GpgmeNewSignature, GpgmeSignResult and gpgme_op_sign_result.
(Crypto Operations): Add GpgmeInvalidUserID.
(Algorithms): New chapter.

* gpgme.texi (Deleting Keys): Document
GPGME_Ambiguous_Specification.
(Error Values): Remove GPGME_Invalid_Type and GPGME_Invalid_Mode.
Add GPGME_Unknown_Reason, GPGME_Not_Found,

GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
GPGME_Bad_Signature, GPGME_No_Public_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Change GPGME_IMPORT_PRIVATE to
GPGME_IMPORT_SECRET.

* gpgme.texi (Importing Keys): Remove note about gpgme_get_op_info.
(Detailed Results): Remove note about import.

* gpgme.texi (Importing Keys): Add documentation
for
GpgmeImportStatus, GpgmeImportResult and gpgme_op_import_result.

* gpgme.texi (Generating Keys): Fix documentation of public and
secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document changed gpgme_op_genkey
and new gpgme_op_genkey_result function. Document
GpgmeGenKeyResult data type.

* gpgme.texi (Error Values): Rename GPGME_No_Passphrase to
GPGME_Bad_Passphrase.
* gpgme.texi (Decrypt): Likewise.
(Decrypt and Verify): Likewise.
(Creating a Signature): Likewise.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Rename GPGME_No_Recipients to
GPGME_No_UserID and GPGME_Invalid_Recipient to
GPGME_Invalid_UserID.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Remove GPGME_Busy and GPGME_No_Request.
(Listing Keys): Likewise.
(Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancelling an Operation): Removed.
(Passphrase

Callback): Document new type for GpgmePassphraseCb.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Rename member part to
file_name.

* gpgme.texi (Protocols and Engines): Document
gpgme_get_protocol_name.

* gpgme.texi (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Interface): Document new even
GPGME_EVENT_START.
(Waiting For Completion): Document new possible return values.
(I/O Callback Interface): Document return type of GpgmeIOCb.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Hooking Up Into Idle Time): Section removed.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Drop R_STAT argument in gpgme_op_verify.
* gpgme.texi (Decrypt and Verify): Likewise for
gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document that
GPGME_ATTR_IS_SECRET is not representable
as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Signatures): New section.
(Listing Keys): Add gpgme_get_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Memory Based Data Buffers): New subsection.
(File Based Data Buffers): Likewise.
(Callback Based Data Buffers): Likewise.
(Manipulating Data Buffers): Update interfaces. Add
gpgme_data_seek.
* gpgme.texi (Engine Version Check): Remove gpgme_check_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document new argument to
gpgme_op_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Fix prototype of gpgme_get_sig_key.
Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Document gpgme_op_import_ext.

* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

* gpgme.texi (Information About Keys): Changed GPGME_ATTR_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Say that secret keys might not be
deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document (badly) the new
key attributes.

* gpgme.texi (Manipulating Data Buffers): Mention that backend
tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): Update this section.
(Waiting For Completion): Likewise for this subsection.
(Cancelling an Operation): Likewise for this subsection.
(Using External Event Loops): New subsection with several
subsubsections.

2002-06-28
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove item about the need to
synchronize anything against gpgme_wait (except gpgme_wait
itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Fix documentation for IDX.
(Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

* gpgme.texi (Importing Keys): Document the return value -1 of
gpgme_op_import.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgme.texi (Verify): Document attribute GPGME_ATTR_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some typographical corrections
throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Overview): Replace note about thread-safeness.
(Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): Changed some data types
to void*.
(Protocol Selection): Added gpgme_get_protocol.
(Verify): Updated to include the new attribute functions and
status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document that either return
argument can be NULL.
(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix small
typo. Document the
new function gpgme_get_passphrase_cb.
(Progress Meter Callback): Document the new function
gpgme_get_progress_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Fix function name. Reported
by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (direntry): End index entry with a full stop.
Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document symmetric
encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add example.
* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

*
gpgme.texi (Information About Keys): Document GPGME_ATTR_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document verification of normal and
cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document gpgme_op_keylist_ext_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
GPGME_Invalid_Recipients.
(Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
gpgme_op_encrypt_sign and gpgme_op_encrypt_sign_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Add a note about
certificates to include.
(Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Remove literal tags.
(Generating Keys): Update documentation.

* gpgme.texi (Generating Keys):
Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Waiting For Completion): Adjust doc to changes in
the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document error at creation
failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Add reference to gpgme_get_op_info.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some spell checking.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add all the gpgme_op_*_start functions.
Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): New section.
(Verify): Document gpgme_get_notation.
(More Information):
New section describing gpgme_get_op_info.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's

R_HD type from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating data buffers): Change
gpgme_data_new_from_filepart's LENGTH type from off_t to size_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating keys): New subsection.
(Exporting keys): Likewise.
(Importing keys): Likewise.
(Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: g10Code -> g10 Code

* gpgme.texi (Top): Complete detailmenu.

* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* ChangeLog: New file.
* gpgme.texi: Likewise.
* gpl.texi: Likewise.
* fdl.texi: Likewise.
* Makefile.am (info_TEXINFOS): New variable.
(gpgme_TEXINFOS): Likewise.

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2011 g10 Code GmbH

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This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
(21:protected-private-key(3:elg(1:p129:|B36I(s7}+ZJ/pvE;"tg7N ca"Gxvnyu&bB#h'7=89&oG
R<hO)(1:g1:)(1:y128:Ji]WU_UP}AQ\YMhAl|2e{_tcMNDg]{QnWsK 4pY{$bDCs)(9:protected25:openpgp-s2k3-
sha1-aes-cbc((4:sha18:JcE7:6452224)16: i[Q*vK)192:FJA!O!ZAF
biJ&Tsb!t
&9@R\~V+x>?sedDz-W(yqf?u^e?s1saV8<T0:tC5%ZMh?$|,y_e[1D)(12:protected-at15:20130812T105135)))

```
(private-key
(oid.1.2.840.113549.1.1.1
 (n
#00e0ce96f90b6c9e02f3922beada93fe50a875eac6bcc18bb9a9cf2e84965caa2d1ff95a7f542465c6c0c19d276e4526ce
048868a7a914fd343cc3a87dd74291ffc565506d5bbb25cbac6a0e2dd1f8bcaab0d4a29c2f37c950f363484bf269f78914
40464baf79827e03a36e70b814938eebdc63e964247be75dc58b014b7ea251#)
 (e #010001#)
 (d
#046129F2489D71579BE0A75FE029BD6CDB574EBF57EA8A5B0FDA942CAB943B117D7BB95E5D28875E0F
9FC5FCC06A72F6D502464DABDED78EF6B716177B83D5BDC543DC5D3FED932E59F5897E92E6F58A0F334
24106A3B6FA2CBF877510E4AC21C3EE47851E97D12996222AC3566D4CCB0B83D164074ABF7DE655FC244
6DA1781#)
 (p
#00e861b700e17e8afe6837e7512e35b6ca11d0ae47d8b85161c67baf64377213fe52d772f2035b3ca830af41d8a4120e
1c1c70d12cc22f00d28d31dd48a8d424f1#)
 (q
#00f7a7ca5367c661f8e62df34f0d05c10c88e5492348dd7bddc942c9a8f369f935a07785d2db805215ed786e4285df16
58eed3ce84f469b81b50d358407b4ad361#)
 (u
#304559a9ead56d2309d203811a641bb1a09626bc8eb36fffa23c968ec5bd891eebbafc73ae666e01ba7c8990bae06cc2
bbe10b75e69fcacb353a6473079d8e9b#)
 )
)
# libgpgme.vers - List of symbols to export.
# Copyright (C) 2002, 2004, 2005, 2009, 2012 g10 Code GmbH
#
# This file is part of GPGME.
#
# GPGME is free software; you can redistribute it and/or modify
# it under the terms of the GNU Lesser general Public License as
# published by the Free Software Foundation; either version 2.1 of
# the License, or (at your option) any later version.
#
# GPGME is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU Lesser General Public License for more details.
#
# You should have received a copy of the GNU Lesser General Public
# License along with this program; if not, see <https://www.gnu.org/licenses/>.

#-----------------------------------------------------
# Please remember to add new functions also to gpgme.def
#-----------------------------------------------------

GPGME_1.1 {
 global:
   gpgme_set_engine_info;
```

gpgme_ctx_get_engine_info;
gpgme_ctx_set_engine_info;

gpgme_data_set_file_name;
gpgme_data_get_file_name;
gpgme_data_identify;

gpgme_sig_notation_clear;
gpgme_sig_notation_add;
gpgme_sig_notation_get;

gpgme_free;

gpgme_op_getauditlog_start;
gpgme_op_getauditlog;

gpgme_conf_release;
gpgme_conf_arg_new;
gpgme_conf_arg_release;
gpgme_conf_opt_change;
gpgme_op_conf_load;
gpgme_op_conf_save;
gpgme_op_conf_dir;

gpgme_cancel_async;

gpgme_op_assuan_result;
gpgme_op_assuan_transact;
gpgme_op_assuan_transact_start;

gpgme_check_version_internal;

gpgme_io_read;
gpgme_io_write;

gpgme_result_ref;
gpgme_result_unref;

gpgme_op_import_keys;
gpgme_op_import_keys_start;
gpgme_op_export_keys;
gpgme_op_export_keys_start;

gpgme_op_assuan_transact_ext;

gpgme_wait_ext;

gpgme_op_vfs_mount_result;
gpgme_op_vfs_mount;
gpgme_op_vfs_create;

gpgme_key_from_uid;
gpgme_set_sub_protocol;
gpgme_get_sub_protocol;

gpgme_op_passwd_start;
gpgme_op_passwd;

gpgme_set_global_flag;

gpgme_io_writen;

gpgme_set_pinentry_mode;
gpgme_get_pinentry_mode;

gpgme_get_dirinfo;

gpgme_op_spawn_start;
gpgme_op_spawn;

gpgme_set_offline;
gpgme_get_offline;

gpgme_set_status_cb;
gpgme_get_status_cb;

gpgme_pubkey_algo_string;
gpgme_set_ctx_flag;
gpgme_get_ctx_flag;
gpgme_data_set_flag;

gpgme_op_createkey_start;
gpgme_op_createkey;
gpgme_op_createsubkey_start;
gpgme_op_createsubkey;
gpgme_op_adduid_start;
gpgme_op_adduid;
gpgme_op_revuid_start;
gpgme_op_revuid;
gpgme_op_keysign_start;
gpgme_op_keysign;
gpgme_op_tofu_policy_start;
gpgme_op_tofu_policy;
gpgme_op_interact_start;
gpgme_op_interact;

```
  gpgme_addrspec_from_uid;

  gpgme_set_sender;
  gpgme_get_sender;

  gpgme_op_query_swdb;
  gpgme_op_query_swdb_result;

   gpgme_op_set_uid_flag_start;
  gpgme_op_set_uid_flag;

  gpgme_op_decrypt_ext;
  gpgme_op_decrypt_ext_start;

  gpgme_data_new_from_estream;

};


GPGME_1.0 {
 global:
  gpgme_check_version;
  gpgme_get_engine_info;
  gpgme_engine_check_version;

  gpgme_err_code_from_errno;
  gpgme_err_code_to_errno;
  gpgme_err_make_from_errno;
  gpgme_error_from_errno;
  gpgme_strerror;
  gpgme_strerror_r;
  gpgme_strsource;

  gpgme_data_get_encoding;
  gpgme_data_new;
  gpgme_data_new_from_cbs;
  gpgme_data_new_from_fd;
  gpgme_data_new_from_file;
  gpgme_data_new_from_filepart;
  gpgme_data_new_from_mem;
  gpgme_data_new_from_stream;
  gpgme_data_read;
  gpgme_data_release;
  gpgme_data_release_and_get_mem;
  gpgme_data_seek;
  gpgme_data_set_encoding;
  gpgme_data_write;
```

gpgme_get_protocol_name;
gpgme_hash_algo_name;
gpgme_pubkey_algo_name;

gpgme_new;
gpgme_get_armor;
gpgme_get_include_certs;
gpgme_get_io_cbs;
gpgme_get_keylist_mode;
gpgme_get_passphrase_cb;
gpgme_get_progress_cb;
gpgme_get_protocol;
gpgme_get_textmode;
gpgme_release;
gpgme_set_armor;
gpgme_set_include_certs;
gpgme_set_io_cbs;
gpgme_set_keylist_mode;
gpgme_set_locale;
gpgme_set_passphrase_cb;
gpgme_set_progress_cb;
gpgme_set_protocol;
gpgme_set_textmode;
gpgme_signers_add;
gpgme_signers_clear;
gpgme_signers_count;
gpgme_signers_enum;

gpgme_key_ref;
gpgme_key_unref;
gpgme_key_release;

gpgme_trust_item_ref;
gpgme_trust_item_unref;

gpgme_cancel;
gpgme_op_card_edit;
gpgme_op_card_edit_start;
gpgme_op_decrypt;
gpgme_op_decrypt_result;
gpgme_op_decrypt_start;
gpgme_op_decrypt_verify;
gpgme_op_decrypt_verify_start;
gpgme_op_delete;
gpgme_op_delete_start;
gpgme_op_delete_ext;
gpgme_op_delete_ext_start;

gpgme_op_edit;
gpgme_op_edit_start;
gpgme_op_encrypt;
gpgme_op_encrypt_start;
gpgme_op_encrypt_ext;
gpgme_op_encrypt_ext_start;
gpgme_op_encrypt_sign;
gpgme_op_encrypt_sign_ext;
gpgme_op_encrypt_sign_start;
gpgme_op_encrypt_sign_ext_start;
gpgme_op_encrypt_result;

gpgme_op_export;
gpgme_op_export_ext;
gpgme_op_export_ext_start;
gpgme_op_export_start;
gpgme_op_genkey;
gpgme_op_genkey_result;
gpgme_op_genkey_start;
gpgme_get_key;
gpgme_op_import;
gpgme_op_import_result;
gpgme_op_import_start;
gpgme_op_keylist_end;
gpgme_op_keylist_ext_start;
gpgme_op_keylist_from_data_start;
gpgme_op_keylist_next;
gpgme_op_keylist_result;
gpgme_op_keylist_start;
gpgme_op_sign;
gpgme_op_sign_result;
gpgme_op_sign_start;
gpgme_op_trustlist_end;
gpgme_op_trustlist_next;
gpgme_op_trustlist_start;
gpgme_op_verify;
gpgme_op_verify_result;
gpgme_op_verify_start;
gpgme_wait;

gpgme_data_new_with_read_cb;
gpgme_data_rewind;
gpgme_get_sig_status;
gpgme_get_sig_string_attr;
gpgme_get_sig_ulong_attr;
gpgme_get_sig_key;
gpgme_key_get_string_attr;
gpgme_key_get_ulong_attr;

```
  gpgme_key_sig_get_string_attr;
  gpgme_key_sig_get_ulong_attr;
  gpgme_op_import_ext;
  gpgme_trust_item_get_int_attr;
  gpgme_trust_item_get_string_attr;
  gpgme_trust_item_release;

  gpgme_err_code_from_syserror;
  gpgme_err_set_errno;

 local:
  *;

};
;;; -*- Mode: lisp -*-

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;;;
;;; This file is part of GPGME.
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;;; modify it under the terms of the GNU Lesser General Public License
;;; as published by the Free Software Foundation; either version 2.1 of
;;; the License, or (at your option) any later version.
;;;
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;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
;;; Lesser General Public License for more details.
;;;
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;;; License along with GPGME; if not, write to the Free
;;; Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
;;; 02111-1307, USA.

(defpackage #:gpgme-system
 (:use #:common-lisp #:asdf))

(in-package #:gpgme-system)

(defsystem gpgme
 :description "GnuPG Made Easy."
 :author "g10 Code GmbH"
  :version "1.13.1"
 :licence "GPL"
 :defsystem-depends-on ("cffi-grovel")
 :depends-on ("cffi" "gpg-error" "trivial-garbage")
 :components ((:file "gpgme-package")
```

```
          (:cffi-grovel-file "gpgme-grovel"
           :depends-on ("gpgme-package"))
      (:file "gpgme"
 :depends-on ("gpgme-package" "gpgme-grovel"))))
```

```
-----BEGIN PGP PRIVATE KEY BLOCK-----

lQOYBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLu1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJlO1s0N2c
PShtr98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqpRJhLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAEAB/wLJ0gyMjs2fFfT83wM
5Lzz2yQIwV4t3bblBAujdHTqeN5Zmsm/oakFyjSokULK96Kv0R4ej9eoIgMFvxFk
HRkrggxTrbsNJ7I6QcKYHTPeIIj318ykNL6fj0WJUcdPIENukXl5jbqNyk3/4D2y
TTDySyq6jHTgvMH4K4KJUSpglvSJPntTk9RhuFGHAF+sNR9atygDYctAaERMRtSg
LCoSt/AoX5GRMlQjXT9oqQjwSQoZyF4s8HMC8wdTFIE/E0L4IVdHVp8sz2UszNtT
W/evmCA+KVruKjRH/Fhrq4hHkEamW28+j4L6uAyagONP7BONs+S5Oo2zTT9+tV2R
ILTZBADdgLuAgF6C5Lu9jCF6DfFgaT/uafMyQNkEGNlxOHMWHTgLHe475V2eG9gA
amd4yXKyEFKU1PWnvlGuicQSGdzVcwmq61msvXgYD0FK3LP3yWzKnE4X1tzrC9Vp
/uHJxKjewCuyt1f5in919v+T8TbUxBYKC0zX/qWtX+10cTx77QQA6leqhToJ95Yc
u4UBrKMEO+y2v8Svb3LG7yI5oY8tkw0EkJ/kpZ8xTAfZYCe6fXdvVE3PHg2lrxyc
Wv/EU3QY/qA3G82mbXYeJ2jNZaTNYo4MylMrt4Mx25x4ke7JlsE8SVrQ+4CrHkqp
OjSIa7fppLrQ78uW980AtN8NNQGrlTsD/A9aoA60Igxy1Q3K2uSyDCyjLknv57ym
ZSBD3/t7m0l6Q6gbdfhNGosT+Hd4y3actqEqzXZHW2VG4dKZ/wRNkxtSm9adU9vs
EHyzxjb6mKIH32zAG5TaFT20hC+NK6lsyHr9UE2ZrS6ma2sLxGW2O40hqNsdD+5m
NrqeBc2I/js1PMK0EHRlc3RAZXhhbXBsZS5vcmeJAVQEEwEIAD4WIQTUFzW5Ejb9
uIIEjFojAWNe7/DLBQUCWuwoSQIbAwUJA8JnAAULCQgHAgYVCgkICwIEFgIDAQIe
AQIXgAAKCRAjAWNe7/DLBf9kB/wOQ/S60HGwFq07W9N01HWULyhHKoMmcHL6rfZ6
4oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6kaBe+wF6Kqir6udFSBW9rPcFg6/V
ZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rNGkYo1JCBR0XdRJYCSX3yB4TWv/eX
nZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k70DevQeBsv+UjVXjWpNTZmPbvDnd9
95uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6UunOf9Rlp1oMzdxMool/d1MlCxg2h
3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ1J8Nsv87SZeEnQOYBFrsKEkBCADj
oEBhG/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6yE+x2hk5FoQCajxKa/d4AVxOnJpd
whAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0pO7bgAiZxkA6RHxtNqhpPnPQoXvUz
kzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/8i9Taz67pdZwuJjac8qBuJHjzAo1
bjYctFYUSG5pbmMQyNLySzgiNkFa4DajODlt3RuqVGP316Fk+Sy2+60tC/HlX8jg
MyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyLUGKU+L8cB2g1PGGp2biBFWqZbudZ
oyRBet/0yH/zirBdQJw1ABEBAAEAB/4lN3gXOI4OuoOcsvHak4pebx61Mt0YP9cT
qZASIBqxok5x8E28pFh/tYfkYdqRCtdNYZOnxcEoUWh5j6nfwZkEnJ9P/T8GPNk7
pMKnKXmExi05b5uGHD8nU1rSbf/YkvAF0vpbxd4/RDxbbtQhbUwGzusSI+pBLM0w
5TreEB+vRGBc2gOvXXOtKLNEa7M9rH2EwbAkP3jOGGwgk6adxbQdBcRxq4merqhL
YrVz73bCj8TDc0fsNJyIaZZJ++ejfBFYavsF1pvx9z7FNFi8rSXoiB3SBtaWGfhr
bwNaMZrDc7TRIq/fgGaL6g//bzcWrr1YaHXZ10Bgx6UymDOlYkCpBADm0Hv46sPw
07SO8+IACcaQliOto1pndOPwTimCeo58/7rf8I2a5uuJloGrnPwAX65bKDnUALp6
X3lnXRNMhnB3Uewx4i00LQmjsxhJfQiGLpMv0j58tn64s7GqQzGVV1JKcQm992RV
jFOydyjZ+K4LGWEOITG/bZrMEVNGCM+OnQQA/Haz8xN0NFSlq7tyfFc0pkx/TiCX
xGfBqbO0wU2b5GMnZbY/06HENpidIzpa231VQaw5/nPTvfhlLKW1iGAkc148cX1q
```

```
lL9w2ksXuaHR3LXud2VcfVTIdxU/7h7u1dD/85+c0+7jlGObD9cXKxlM6OjpIJz1
l5/1h3C5S0TuxHkEAL/3BGihkhNfv1Xx0rWu0/732usX/nE/A9C26hGu41FUf3fp
0ilonKpKZUEwWt5hWSEFCSrznNVekiO0rxvuu3RVegvzThPNU4Pf4JZtJpRVhvUQ
d9ulxJw7V9rs75uNBatTNC0kXuGoXhehw4Bn93xa67gYGd3LfrH+oT0GCDpTSHCJ
ATwEGAEIACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAK
CRAjAWNe7/DLBf0pCACPp5hBuUWngu2Hqvg+tNiujfsiYzId3MffFxEk3CbXeHcJ
5F32NDJ9PYCnra4L8wSv+NZt9gIa8lFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7
Jq3e/4Iy0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02L
kr+2Cc/Qk6H+vlNOHGRgnpI/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe
23nntMSDA+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t
9Mmd7bM1+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
=hkUm
-----END
 PGP PRIVATE KEY BLOCK-----
#+TITLE: Stuff To Do
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Latin Modern Roman}

* Project Task List
 :PROPERTIES:
 :CUSTOM_ID: task-list
 :END:

** DONE Documentation default format
  CLOSED: [2018-02-15 Thu 21:29]
  :PROPERTIES:
  :CUSTOM_ID: todo-docs-default
  :END:

  Decide on a default file format for documentation.  The two main
  contenders being Org Mode, the default for the GnuPG Project and
  reStructuredText, the default for Python projects.  A third option
  of DITA XML was considered due to a number of beneficial features
  it provides.

  The decision was made to use Org Mode in order to fully integrate
  with the rest of the GPGME and GnuPG documentation.  It is possible
  to produce reST versions via Pandoc and DITA XML can be reached
  through converting to either Markdown or XHTML
 first.


** TODO Documentation build systems
  :PROPERTIES:
```

:CUSTOM_ID: todo-docs-build-systems
:END:

Though Org Mode is being used for the default documentation format, it
still needs to end up as usable by end users. So the Org Mode files
are used to produce the "source" files used by the two main contenders
for documenting the bindings: Texinfo and ReStructuredText/Docutils.

*** TODO Texinfo documentation
:PROPERTIES:
:CUSTOM_ID: todo-docs-build-texinfo
:END:

Need to add all of Texinfo's ... special systems to make it do its
things.

*** TODO ReStructuredText documentation
:PROPERTIES:
:CUSTOM_ID: todo-docs-build-docutils
:END:

Need to run Sphinx's quick start, add it to the requirements and tweak
the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the
lot, then the Sphinx bits can be automated.

** STARTED Documentation HOWTO
:PROPERTIES:
:CUSTOM_ID: todo-docs-howto
:END:

- State "STARTED"   from "TODO"   [2018-03-08 Thu 13:59] \\
Started yesterday.
Write a HOWTO style guide for the current Python bindings.

*** DONE Start python bindings HOWTO
CLOSED: [2018-03-07 Wed 18:14]
:PROPERTIES:
:CUSTOM_ID: howto-start
:END:

*** STARTED Include certain specific instructions in the HOWTO
:PROPERTIES:

:CUSTOM_ID: howto-requests
:END:

Note: moved the S/MIME bits out to their own section of the TODO
list and may be served better by separate HOWTO documentation
anyway.

- State "STARTED"   from "TODO"   [2018-03-09 Fri 15:27]
Some functions can be worked out from the handful of examples
available, but many more can't and I've already begun receiving
requests for certain functions to be explained.

**** DONE Standard scenarios
CLOSED: [2018-03-19 Mon 12:34]
:PROPERTIES:
:CUSTOM_ID: howto-the-basics
:END:

- State "DONE"   from "STARTED"
[2018-03-19 Mon 12:34] \\
All four of those are done.
- State "STARTED"   from "TODO"   [2018-03-09 Fri 15:26] \\
Began with the example code, now to add the text.
What everyone expects: encryption, decryption, signing and verifying.

**** STARTED Key control
:PROPERTIES:
:CUSTOM_ID: howto-key-control
:END:

- State "STARTED"   from "TODO"   [2018-03-19 Mon 12:35] \\
Generating keys and subkeys are done, but revocation is still to be done.
Generating keys, adding subkeys, revoking subkeys (and keeping
the cert key), adding and revoking UIDs, signing/certifying keys.

**** DONE More key control
CLOSED: [2018-03-19 Mon 12:36]
:PROPERTIES:
:CUSTOM_ID: howto-key-selection
:END:

- State "DONE"   from "TODO"   [2018-03-19 Mon 12:36] \\
Key selection, searching, matching and counting is done.
Selecting keys to encrypt to or manipulate in other ways (e.g. as
with key

control or the basics).

** TODO Documentation SWIG
:PROPERTIES:
:CUSTOM_ID: todo-docs-swig
:END:

Write documentation for the complete SWIG bindings demonstrating the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of something to be used in conjunction with the existing GPGME documentation which makes it easier for Python developers to use.

** TODO GUI examples
:PROPERTIES:
:CUSTOM_ID: todo-gui-examples
:END:

Create some examples of using Python bindings in a GUI application to either match or be similar to the old GTK2 examples available with PyME.

** TODO Replace SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig
:END:

Selecting SWIG for this project in 2002 was understandable and effectively the only viable option. The options available now, however, are significantly improved and some of those would resolve a number of existing problems with using SWIG, particularly when running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python bindings using a more suitable means of interfacing with the GPGME C source code.

*** TODO Replacement for SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig-replacement
:END:

Decide on a replacement for SWIG. Currently CFFI is looking like

the most viable candidate, but some additional testing and checks
are yet to be completed.

** TODO API for an API
:PROPERTIES:
:CUSTOM_ID: todo-api-squared
:END:

A C API like GPGME is not what most modern developers think of when
they hear the term API. Normally they think of something they can
interact with like a RESTful web API. Though RESTful is unlikely
given the nature of GPGME and the process of encryption, it may be
possible to provide a more familiar interface which can be utilised
by developers of other languages for which bindings are not
available
or for which it is too difficult to create proper
bindings.

** TODO S/MIME
:PROPERTIES:
:CUSTOM_ID: s-mime
:END:

Eventually add some of this, but the OpenPGP details are far more
important at the moment.

* Project Task Details
:PROPERTIES:
:CUSTOM_ID: detailed-tasks
:END:

** Working examples
:PROPERTIES:
:CUSTOM_ID: working-examples
:END:

The old GUI examples were unable to be retained since they depended
on GTK2 and Python 2's integration with GTK2.

Current GPGME examples so far only include command line tools or
basic Python code for use with either Python 2.7 or Python 3.4 and
above.

Future GUI examples ought to utilise available GUI modules and
libraries supported by Python 3. This may include Qt frameworks,

Tkinter, GTK3 or something else entirely.

** Documentation
:PROPERTIES:
:CUSTOM_ID: documentation
:END:

The legacy documentation which no longer applies to the Python bindings has been
removed.

Current and future documentation will adhere to the GnuPG standard of using Org Mode and not use the reStructuredText (reST) format more commonly associated with Python documentation. The reasons for this are that this project is best served as shipping with the rest of GPGME and the documentation ought to match that. There are also aspects of Org Mode's publishing features which are superior to the defaults of reST, including the capacity to generate fully validating strict XHTML output.

If reST files are required at a later point for future inclusion with other Python packages, then that format can be generated from the .org files with Pandoc before being leveraged by either Docutils, Sphinx or something else.

While there are some advanced typesetting features of reST which are not directly available to Org Mode, more often than not those features are best implemented with either HTML and CSS, with LaTeX to produce a PDF or
via a number of XML solutions. Both reST and
Org Mode have multiple paths by which to achieve all of these.

```
from __future__ import absolute_import

import cython
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

if cython.compiled is True:
    cc = "Powered by Cython compiled C code."
```

```
else:
  cc = "Powered by Python."

print("""
  Number of secret keys:  {0}
  Number of public keys:  {1}

 {2}
""".format(secnum, pubnum, cc))
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename maintenance-mode.info
@settitle Maintenance Mode
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title Maintenance Mode
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top Maintenance Mode
@end ifnottex

@menu
* Maintenance Mode from 2019::

@detailmenu
--- The Detailed Node Listing ---

Maintenance Mode from 2019

* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::

Documentation formats

* Cautionary Notes regarding Sphinx and EPUB::

@end detailmenu
@end menu
```

@node Maintenance Mode from 2019
@chapter Maintenance Mode from 2019

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian
English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

@menu
* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::
@end menu

@node Maintainer from 2019 onward
@section Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of
the bindings; but without funding
for that position, the amount of time I will be able to dedicate
solely to this task will be limited and reduced to volunteered time.
As with all volunteered time and effort in free software projects,

this will be subject to numerous external imperatives.

@node Using the Python Bindings from 2019 and beyond
@section Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they
will continue to just work the same as they always have. Expansions
of GPGME itself are usually handled by SWIG with the existing code and
thus bindings are generated properly when the bindings are installed
alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new
addition to GPGME, then that is a bug and thus subject to the
maintenance mode provisions (i.e. it will be fixed following a bug
report being raised and your humble author will need to remember
 where
the timesheet template was filed, depending on how many years off such
an event is).

All the GPGME functionality will continue to be accessible via the
lower level, dynamically generated methods which match the GPGME C
documentation. While the more intuitively Pythonic higher level layer
already covers the vast majority of functionality people require with
key generation, signatures, certifications (key signing), encryption,
decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking
because they are missing from GPGME itself (e.g. revoking keys via the
API) and in such cases they are usually deliberately excluded. More
discussion of these issues can be found in the archives of the
@uref{https://lists.gnupg.org/mailman/listinfo/gnupg-devel, gnupg-devel mailing list}.

Any features existing in the dynamically generated layer for which
people want a specific, higher level function included to make it more
Pythonic
 (e.g. to avoid needing to learn or memorise cryptographic
mode values or GnuPG status code numbers), would be a feature request
and @emph{not} a bug.

It is still worthwhile requesting it, but the addition of such a
feature would not be guaranteed and provided on a purely volunteer
basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request
already know how to @uref{https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset, expedite it} (use the message
field to state what
feature is being requested).

@node Documentation formats
@section Documentation formats

The documentation has been written in Org mode for GNU Emacs, with
both Texinfo and reStructuredText formats generated from that. The
Texinfo files are intended for use with the rest of the GnuPG
documentation; while the reStructuredText files are intended for use
with Docutils and Sphinx, as with other Python projects.

@menu
* Cautionary Notes
 regarding Sphinx and EPUB::
@end menu

@node Cautionary Notes regarding Sphinx and EPUB
@subsection Cautionary Notes regarding Sphinx and EPUB

Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by @uref{https://readthedocs.org/, Read the Docs} and
the @uref{https://docs.python.org/, Python documentation}, there are a number of output formats it does
not handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the @uref{http://idpf.org/epub, EPUB 3} format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here @uref{https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-
python/rst/epub/GPGMEPythonBindings.epub, produced a file} with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo
 doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
@uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature
request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.

@bye
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQENBFsMHecBCACqdJgqa+CeNYwPCK+MpOwAV6uFVjDyO2LmOs6+XfDWRBU/Zjtz
8zdYNKSbLjkWN4ujV5aiyA7MtEofszzYLEoKUt1wiDScHMpW8qmEFDvl9g26MeAV
rTno9D5KodHvEIs8wnrqBs8ix0WLbh6J1Dtt8HQgIbN+v3gaRQrgBFe6z2ZYpHHx

ZfOu3iFKlm2WE/NekRkvvFIo3ApGvRhGIYw6JMmugBlo7s5xosJK0I9dkPGlEEtt
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ybjkP8Jw6Udm89bK2ucYFfjdrmYn/nJqRxeNABEBAAG0I1Rlc3QgTm9Qcml2S2V5
IDxub2JvZHlAZXhhbXBsZS5vcmc+iQFOBBMBCAA4FiEE4Fmh4IZtMa4TEXCITZou
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zVWZC/NF3tPgbziIxXQTNt34nS+9dbV/QFDLW0POcN7C0jR/hgkBjMEH2PezWhSj
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k2dPN3+Y0zCTNRgAHEI+yIQbM6pio6v2c+UCtT1QhW4xSI38/kcEG8QiM55r1TUy
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QF2v2FuEuMe8mhju7Met7SN2zGv1LnjhTNshEa9IABEfjZirE2Tqx4xCWDwDedK4
u1ToFvcnuAMnq2O47Sh+eTypsf6WPFtPBWf6ctKY31hFXjgoyDBULBvl43XU/D9C
Mt7nsKDPYHVrrnge/qWPYVcb+cO0sSwNImMcwQSdTQ3VBq7MeNS9ZeBcXi+XCjhN
kjNum2AQqpkHHDQV7871yQ8RIILvZSSfkLb0/SNDU+bGaw2G3lcyKdIfZi2EWWZT
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+QARAQABiQE2BBgBCAAgFiEE4Fmh4IZtMa4TEXCITZouEzBBU9EFAlsMHecCGwwA
CgkQTZouEzBBU9H5TQgAolWvIsez/WW8N2tmZEnX0LOFNB+1S4L4X983njwNdoVI
w19pbj+8RIHF/H9kcPGi7jK96gvlykQn3uez/95D2AiRFW5KYdOouFisKgHpv8Ay
BrhclHv11yK+X/0iTD0scYaG7np5162xLkaxSO9hsz2fGv20RKaXCWkI69fWw0BR
XlI5pZh2YFei2ZhH/tIMIW65h3w0gtgaZBBdpZTOOW4zvghyN+0MSObqkI1BvUJu
caDFI4d6ZTmp5SY+pZyktZ4bg/vMH5VFxdIKgbLx9uVeTvOupvbAW0TNulYGUBQE
nm+S0zr3W18t64e4sS3oHse8zCqo1iiImpba6F1Oaw==
=y6DD
-----END
 PGP PUBLIC KEY BLOCK-----
00~0
 *H
0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10
011203093638Z
021203093638Z0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 100
 *H
0l+Pu.\-ZT$e'nE&h4<}BePm[%j-/7PcHKi@FKy~npcd${]K~Q00U37Tq8_eK40U#037Tq8_eK4om0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10U00
 *H
l8gD Z
wYL,M'j
pk2pf|L ;Rl}#h$~O!9;3e\A'v&P^$'Oc.-TS~A>:fQY<
;;;; gpgme.lisp

```
;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

;;; Set up the library.

(in-package :gpgme)

(deftype byte-array ()
 '(simple-array (unsigned-byte 8) (*)))

(deftype character-array ()
 '(simple-array character (*)))

;;;
 Debugging.

(defvar *debug* nil "If debugging output should be given or not.")

;;; Load the foreign library.

(define-foreign-library libgpgme
 (:unix "libgpgme.so")
 (t (:default "libgpgme")))

(use-foreign-library libgpgme)

;;; System dependencies.

; Access to ERRNO.
(defcfun ("strerror" c-strerror) :string
 (err :int))
```

```
(defun get-errno ()
 *errno*)

(defun set-errno (errno)
 (setf *errno* errno))

(define-condition system-error (error)
 ((errno :initarg :errno :reader system-error-errno))
 (:report (lambda (c stream)
     (format stream "System error: ~A: ~A"
      (system-error-errno c)
      (c-strerror (system-error-errno c)))))
 (:documentation "Signalled when an errno is encountered."))

; Needed to write passphrases.
(defcfun ("write" c-write) ssize-t
 (fd :int)
 (buffer :string) ; Actually :pointer, but we only need string.
 (size size-t))

(defun system-write (fd buffer size)
 (let ((res (c-write fd buffer size)))
   (when (< res 0) (error 'system-error
 :errno (get-errno)))
   res))

;;;
;;; C Interface Definitions
;;;

;;; Data Type Interface

;;; Some new data types used for easier translation.

;;; The number of include certs.  Translates to NIL for default.
(defctype cert-int-t
   (:wrapper :int
    :from-c translate-cert-int-t-from-foreign
    :to-c translate-cert-int-t-to-foreign))

;;; A string that may be NIL to indicate a null pointer.
(defctype string-or-nil-t
   (:wrapper :string
    :to-c translate-string-or-nil-t-to-foreign))

;;; Some opaque data types used by GPGME.
```

```
(defctype gpgme-ctx-t
  (:wrapper :pointer
   :to-c translate-gpgme-ctx-t-to-foreign)
 "The GPGME context type.")

(defctype gpgme-data-t
  (:wrapper :pointer
   :to-c translate-gpgme-data-t-to-foreign)
 "The GPGME data object type.")

;;; Wrappers for the libgpg-error library.

(defctype gpgme-error-t
  (:wrapper gpg-error::gpg-error-t
   :from-c translate-gpgme-error-t-from-foreign
   :to-c translate-gpgme-error-t-to-foreign)
 "The
 GPGME error type.")

(defctype gpgme-error-no-signal-t
  (:wrapper gpg-error::gpg-error-t
   :from-c translate-gpgme-error-no-signal-t-from-foreign)
 "The GPGME error type (this version does not signal conditions in translation.")

(defctype gpgme-err-code-t gpg-error::gpg-err-code-t
 "The GPGME error code type.")

(defctype gpgme-err-source-t gpg-error::gpg-err-source-t
 "The GPGME error source type.")

(defun gpgme-err-make (source code)
 "Construct an error value from an error code and source."
 (gpg-err-make source code))

(defun gpgme-error (code)
 "Construct an error value from an error code."
 (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
 "Retrieve an error code from the error value ERR."
 (gpg-err-code err))

(defun gpgme-err-source (err)
 "Retrieve an error source from the error value ERR."
 (gpg-err-source err))

(defun gpgme-strerror (err)
 "Return a string containing a description of the error code."
```

```
 (gpg-strerror err))

(defun
 gpgme-strsource (err)
 "Return a string containing a description of the error source."
 (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
 "Retrieve the error code for the system error.  If the system error
  is not mapped, :gpg-err-unknown-errno is returned."
 (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
 "Retrieve the system error for the error code.  If this is not a
  system error, 0 is returned."
 (gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)
 (gpg-err-make-from-errno source err))

(defun gpgme-error-from-errno (err)
 (gpg-error-from-errno err))

;;;

(defcenum gpgme-data-encoding-t
 "The possible encoding mode of gpgme-data-t objects."
 (:none 0)
 (:binary 1)
 (:base64 2)
 (:armor 3)
 (:url 4)
 (:urlesc 5)
 (:url0 6)
 (:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t
 "Public key algorithms from libgcrypt."
 (:rsa 1)
 (:rsa-e 2)
 (:rsa-s 3)
 (:elg-e 16)
 (:dsa 17)
 (:ecc 18)
 (:elg 20)
```

```
  (:ecdsa 301)
 (:ecdh 302)
 (:eddsa 303))

(defcenum gpgme-hash-algo-t
 "Hash algorithms from libgcrypt."
 (:none 0)
 (:md5 1)
 (:sha1 2)
 (:rmd160 3)
 (:md2 5)
 (:tiger 6)
 (:haval 7)
 (:sha256 8)
 (:sha384 9)
 (:sha512 10)
 (:sha224 11)
 (:md4 301)
 (:crc32 302)
 (:crc32-rfc1510 303)
 (:crc24-rfc2440 304))

;;;

(defcenum gpgme-sig-mode-t
 "The available signature modes."
 (:none 0)
 (:detach 1)
 (:clear 2))

;;;

(defcenum gpgme-validity-t
 "The available validities for a trust item or key."
 (:unknown 0)
 (:undefined 1)
 (:never 2)
 (:marginal 3)
 (:full 4)
 (:ultimate 5))

;;;

(defcenum gpgme-protocol-t
 "The available protocols."
 (:openpgp 0)
 (:cms 1)
 (:gpgconf 2)
```

```
 (:assuan 3)
 (:g13 4)
 (:uiserver 5)
 (:spawn 6)
 (:default 254)
 (:unknown 255))

;;;

(defbitfield (gpgme-keylist-mode-t :unsigned-int)
 "The available keylist mode flags."
 (:local 1)
 (:extern 2)
 (:sigs 4)
 (:sig-notations)
 (:with-secret 16)
 (:with-tofu 32)
 (:ephemeral
 128)
 (:validate 256))

;;;

(defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
 "The available signature notation flags."
 (:human-readable 1)
 (:critical 2))

(defctype gpgme-sig-notation-t
   (:wrapper :pointer
    :from-c translate-gpgme-sig-notation-t-from-foreign)
 "Signature notation pointer type.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-sig-notation-bitfield :unsigned-int)
 (:human-readable 1)
 (:critical 2))

(defcstruct gpgme-sig-notation
 "Signature notations."
 (next gpgme-sig-notation-t)
 (name :pointer)
 (value :pointer)
 (name-len :int)
 (value-len :int)
 (flags gpgme-sig-notation-flags-t)
 (bitfield gpgme-sig-notation-bitfield))
```

```
;;;

(defcenum gpgme-status-code-t
 "The possible status codes for the edit operation."
 (:eof 0)
 (:enter 1)
 (:leave 2)
 (:abort 3)
 (:goodsig 4)
 (:badsig 5)
 (:errsig 6)
 (:badarmor 7)
 (:rsa-or-idea 8)
 (:keyexpired 9)
 (:keyrevoked 10)
 (:trust-undefined 11)
 (:trust-never
 12)
 (:trust-marginal 13)
 (:trust-fully 14)
 (:trust-ultimate 15)
 (:shm-info 16)
 (:shm-get 17)
 (:shm-get-bool 18)
 (:shm-get-hidden 19)
 (:need-passphrase 20)
 (:validsig 21)
 (:sig-id 22)
 (:enc-to 23)
 (:nodata 24)
 (:bad-passphrase 25)
 (:no-pubkey 26)
 (:no-seckey 27)
 (:need-passphrase-sym 28)
 (:decryption-failed 29)
 (:decryption-okay 30)
 (:missing-passphrase 31)
 (:good-passphrase 32)
 (:goodmdc 33)
 (:badmdc 34)
 (:errmdc 35)
 (:imported 36)
 (:import-ok 37)
 (:import-problem 38)
 (:import-res 39)
 (:file-start 40)
 (:file-done 41)
 (:file-error 42)
```

(:begin-decryption 43)
(:end-decryption 44)
(:begin-encryption 45)
(:end-encryption 46)
(:delete-problem 47)
(:get-bool 48)
(:get-line 49)
(:get-hidden 50)
(:got-it 51)
(:progress 52)
(:sig-created 53)
(:session-key 54)
(:notation-name 55)
(:notation-data 56)
(:policy-url 57)
(:begin-stream 58)
(:end-stream 59)
(:key-created 60)
(:userid-hint 61)
(:unexpected
62)
(:inv-recp 63)
(:no-recp 64)
(:already-signed 65)
(:sigexpired 66)
(:expsig 67)
(:expkeysig 68)
(:truncated 69)
(:error 70)
(:newsig 71)
(:revkeysig 72)
(:sig-subpacket 73)
(:need-passphrase-pin 74)
(:sc-op-failure 75)
(:sc-op-success 76)
(:cardctrl 77)
(:backup-key-created 78)
(:pka-trust-bad 79)
(:pka-trust-good 80)
(:plaintext 81)
(:inv-sgnr 82)
(:no-sgnr 83)
(:success 84)
(:decryption-info 85)
(:plaintext-length 86)
(:mountpoint 87)
(:pinentry-launched 88)
(:attribute 89)

```
 (:begin-signing 90)
 (:key-not-created 91)
 (:inquire-maxlen 92)
 (:failure 93)
 (:key-considered 94)
 (:tofu-user 95)
 (:tofu-stats 96)
 (:tofu-stats-long 97)
 (:notation-flags 98)
 (:decryption-compliance-mode 99)
 (:verification-compliance-mode 100))

;;;

(defctype gpgme-engine-info-t
   (:wrapper :pointer
    :from-c translate-gpgme-engine-info-t-to-foreign)
 "The engine information structure pointer type.")

(defcstruct gpgme-engine-info
  "Engine information."
 (next gpgme-engine-info-t)
 (protocol gpgme-protocol-t)
 (file-name :string)
 (version :string)
 (req-version :string)
 (home-dir :string))

;;;

(defctype gpgme-subkey-t
   (:wrapper :pointer
    :from-c translate-gpgme-subkey-t-from-foreign)
 "A subkey from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
 "The subkey bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512)
```

```
 (:is-cardkey 1024)
 (:is-de-vs 2048))

(defcstruct gpgme-subkey
 "Subkey from a key."
 (next gpgme-subkey-t)
 (bitfield gpgme-subkey-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (length :unsigned-int)
 (keyid :string)
 (-keyid :char :count 17)
 (fpr :string)
 (timestamp :long)
 (expires :long))


(defctype gpgme-key-sig-t
   (:wrapper :pointer
    :from-c translate-gpgme-key-sig-t-from-foreign)
  "A signature on a user ID.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
 "The key signature bitfield."
 (:revoked 1)
 (:expired 2)
 (:invalid 4)
 (:exportable 16))

(defcstruct gpgme-key-sig
 "A signature on a user ID."
 (next gpgme-key-sig-t)
 (bitfield gpgme-key-sig-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (keyid :string)
 (-keyid :char :count 17)
 (timestamp :long)
 (expires :long)
 (status gpgme-error-no-signal-t)
 (-class :unsigned-int)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (sig-class :unsigned-int))


(defctype gpgme-user-id-t
```

```
   (:wrapper :pointer
    :from-c translate-gpgme-user-id-t-from-foreign)
 "A user ID from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
 "The user ID bitfield."
 (:revoked 1)
 (:invalid 2))

(defcstruct gpgme-user-id
 "A user ID from a key."
 (next
 gpgme-user-id-t)
 (bitfield gpgme-user-id-bitfield)
 (validity gpgme-validity-t)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (signatures gpgme-key-sig-t)
 (-last-keysig gpgme-key-sig-t))


(defctype gpgme-key-t
   (:wrapper :pointer
    :from-c translate-gpgme-key-t-from-foreign
    :to-c translate-gpgme-key-t-to-foreign)
 "A key from the keyring.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-bitfield :unsigned-int)
 "The key bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512))

(defcstruct gpgme-key
 "A signature on a user ID."
 (-refs :unsigned-int)
 (bitfield gpgme-key-bitfield)
```

```
 (protocol gpgme-protocol-t)
 (issuer-serial :string)
 (issuer-name :string)
 (chain-id :string)
 (owner-trust gpgme-validity-t)
 (subkeys gpgme-subkey-t)
 (uids gpgme-user-id-t)
 (-last-subkey gpgme-subkey-t)
  (-last-uid gpgme-user-id-t)
 (keylist-mode gpgme-keylist-mode-t))

;;;

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)

(defctype gpgme-progress-cb-t :pointer)

(defctype gpgme-edit-cb-t :pointer)



;;;
;;; Function Interface
;;;

;;; Context management functions.

(defcfun ("gpgme_new" c-gpgme-new) gpgme-error-t
 (ctx :pointer))

(defcfun ("gpgme_release" c-gpgme-release) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t))

(defcfun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
 (proto gpgme-protocol-t))

(defcfun ("gpgme_set_armor" c-gpgme-set-armor) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))
```

```
(defcfun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))

(defcfun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
 (ctx gpgme-ctx-t))

(defconstant +include-certs-default+ -256)

(defcfun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
 (ctx gpgme-ctx-t)
 (nr-of-certs cert-int-t))

(defcfun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
 (ctx gpgme-ctx-t)
 (mode gpgme-keylist-mode-t))

(defcfun ("gpgme_get_keylist_mode" c-gpgme-get-keylist-mode)
   gpgme-keylist-mode-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_passphrase_cb" c-gpgme-set-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-passphrase-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_passphrase_cb" c-gpgme-get-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))

(defcfun ("gpgme_set_progress_cb"
 c-gpgme-set-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-progress-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_progress_cb" c-gpgme-get-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))
```

```
(defcfun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
 (ctx gpgme-ctx-t)
 (category :int)
 (value string-or-nil-t))

(defcfun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
   gpgme-engine-info-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir string-or-nil-t))

;;;

(defcfun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
 (algo gpgme-pubkey-algo-t))

(defcfun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
 (algo gpgme-hash-algo-t))

;;;

(defcfun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_signers_add" c-gpgme-signers-add)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t))

(defcfun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
 (ctx gpgme-ctx-t)
 (seq :int))

;;;

(defcfun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
 (ctx gpgme-ctx-t)
 (name :string)
 (value string-or-nil-t)
```

```
 (flags gpgme-sig-notation-flags-t))

(defcfun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
   gpgme-sig-notation-t
 (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
 "The possible events on I/O event callbacks."
 (:start 0)
 (:done 1)
 (:next-key 2)
 (:next-trustitem 3))

(defctype gpgme-event-io-cb-t :pointer)

(defcstruct
 gpgme-io-cbs
 "I/O callbacks."
 (add gpgme-register-io-cb-t)
 (add-priv :pointer)
 (remove gpgme-remove-io-cb-t)
 (event gpgme-event-io-cb-t)
 (event-priv :pointer))

(defctype gpgme-io-cbs-t :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
 (ctx gpgme-ctx-t)
 (status-p :pointer)
```

```
 (hang :int))

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
 "Data callbacks."
 (read gpgme-data-read-cb-t)
 (write gpgme-data-write-cb-t)
 (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))

(defctype gpgme-data-cbs-t :pointer
 "Data callbacks pointer.")

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
 (dh gpgme-data-t)
 (buffer :pointer)
 (size size-t))

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
 (dh gpgme-data-t)
 (buffer :pointer)
 (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
 (dh gpgme-data-t)
 (offset off-t)
 (whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
 (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
 (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
 (dh-p :pointer)
 (buffer :pointer)
 (size size-t)
 (copy :int))
```

```
(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
  :pointer
 (dh gpgme-data-t)
 (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
 (dh-p :pointer)
 (cbs gpgme-data-cbs-t)
  (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
 (dh-p :pointer)
 (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream)
  gpgme-error-t
 (dh-p :pointer)
 (stream :pointer))

(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
  gpgme-data-encoding-t
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
  gpgme-error-t
 (dh gpgme-data-t)
 (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
 (dh gpgme-data-t)
 (file-name string-or-nil-t))

(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (copy :int))

(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)
  gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (fp
 :pointer)
 (offset off-t)
```

```
 (length size-t))

;;; Key and trust functions.

(defcfun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t
 (ctx gpgme-ctx-t)
 (fpr :string)
 (key-p :pointer)
 (secret :boolean))

(defcfun ("gpgme_key_ref" c-gpgme-key-ref) :void
 (key gpgme-key-t))

(defcfun ("gpgme_key_unref" c-gpgme-key-unref) :void
 (key gpgme-key-t))

;;; Crypto operations.

(defcfun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t
 (ctx gpgme-ctx-t))

;;;

(defctype gpgme-invalid-key-t
   (:wrapper :pointer
    :from-c translate-gpgme-invalid-key-t-from-foreign)
 "An invalid key structure.")

(defcstruct gpgme-invalid-key
 "An invalid key structure."
 (next gpgme-invalid-key-t)
 (fpr :string)
 (reason gpgme-error-no-signal-t))

;;; Encryption.

(defcstruct gpgme-op-encrypt-result
 "Encryption result structure."
 (invalid-recipients gpgme-invalid-key-t))

(defctype gpgme-op-encrypt-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
  "An encryption result structure.")

(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result)
   gpgme-op-encrypt-result-t
 (ctx gpgme-ctx-t))
```

```
(defbitfield gpgme-encrypt-flags-t
 (:always-trust 1)
 (:no-encrypt-to 2)
 (:prepare 4)
 (:expect-sign 8)
 (:no-compress 16)
 (:symmetric 32)
 (:throw-keyids 64)
 (:wrap 128)
 (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign"
 c-gpgme-op-encrypt-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

;;; Decryption.

(defctype gpgme-recipient-t
   (:wrapper :pointer
    :from-c translate-gpgme-recipient-t-from-foreign)
 "A recipient structure.")
```

```
(defcstruct gpgme-recipient
 "Recipient structure."
 (next gpgme-recipient-t)
 (keyid :string)
 (-keyid :char :count 17)
 (pubkey-algo gpgme-pubkey-algo-t)
 (status gpgme-error-no-signal-t))

(defbitfield gpgme-op-decrypt-result-bitfield
 "Decryption result structure bitfield."
 (:wrong-key-usage 1)
 (:is-de-vs 2)
 (:is-mine 4))

(defcstruct gpgme-op-decrypt-result
 "Decryption result structure."
 (unsupported-algorithm :string)
 (bitfield gpgme-op-decrypt-result-bitfield)
 (recipients gpgme-recipient-t)
 (file-name :string))

(defctype gpgme-op-decrypt-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
  "A decryption result structure.")

(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result)
   gpgme-op-decrypt-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t
```

```
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

;;; Signing.

(defctype gpgme-new-signature-t
   (:wrapper :pointer
    :from-c translate-gpgme-new-signature-t-from-foreign)
 "A new signature structure.")

(defcstruct gpgme-new-signature
 "New signature structure."
 (next gpgme-new-signature-t)
  (type gpgme-sig-mode-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t)
 (-obsolete-class :unsigned-long)
 (timestamp :long)
 (fpr :string)
 (-obsolete-class-2 :unsigned-int)
 (sig-class :unsigned-int))

(defcstruct gpgme-op-sign-result
 "Signing result structure."
 (invalid-signers gpgme-invalid-key-t)
 (signatures gpgme-new-signature-t))

(defctype gpgme-op-sign-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-sign-result-t-from-foreign)
 "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
   gpgme-op-sign-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))
```

```
;;; Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
 "Flags
 used for the summary field in a gpgme-signature-t."
 (:valid #x0001)
 (:green #x0002)
 (:red #x0004)
 (:key-revoked #x0010)
 (:key-expired #x0020)
 (:sig-expired #x0040)
 (:key-missing #x0080)
 (:crl-missing #x0100)
 (:crl-too-old #x0200)
 (:bad-policy #x0400)
 (:sys-error #x0800)
 (:tofu-conflict #x1000))

(defctype gpgme-signature-t
   (:wrapper :pointer
    :from-c translate-gpgme-signature-t-from-foreign)
 "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
 "The signature bitfield."
 (:wrong-key-usage 1)
 (:pka-trust 2)
 (:chain-model 4)
 (:is-de-vs 8))

(defcstruct gpgme-signature
 "Signature structure."
 (next gpgme-signature-t)
 (summary gpgme-sigsum-t)
 (fpr :string)
 (status gpgme-error-no-signal-t)
 (notations gpgme-sig-notation-t)
 (timestamp :unsigned-long)
 (exp-timestamp :unsigned-long)
 (bitfield gpgme-signature-bitfield)
 (validity gpgme-validity-t)
 (validity-reason
 gpgme-error-no-signal-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t))
```

```
(defcstruct gpgme-op-verify-result
 "Verify result structure."
 (signatures gpgme-signature-t)
 (file-name :string))

(defctype gpgme-op-verify-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-verify-result-t-from-foreign)
 "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
   gpgme-op-verify-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

;;; Import.

(defbitfield (gpgme-import-flags-t :unsigned-int)
 "Flags used for the import status field."
 (:new #x0001)
 (:uid #x0002)
 (:sig #x0004)
 (:subkey #x0008)
 (:secret
 #x0010))

(defctype gpgme-import-status-t
   (:wrapper :pointer
    :from-c translate-gpgme-import-status-t-from-foreign)
 "An import status structure.")

(defcstruct gpgme-import-status
 "New import status structure."
 (next gpgme-import-status-t)
 (fpr :string)
 (result gpgme-error-no-signal-t)
 (status :unsigned-int))
```

```
(defcstruct gpgme-op-import-result
 "Import result structure."
 (considered :int)
 (no-user-id :int)
 (imported :int)
 (imported-rsa :int)
 (unchanged :int)
 (new-user-ids :int)
 (new-sub-keys :int)
 (new-signatures :int)
 (new-revocations :int)
 (secret-read :int)
 (secret-imported :int)
 (secret-unchanged :int)
 (skipped-new-keys :int)
 (not-imported :int)
 (imports gpgme-import-status-t))

(defctype gpgme-op-import-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-import-result-t-from-foreign)
 "An import status result structure.")

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result)
   gpgme-op-import-result-t
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

;;; Export.

(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
```

```
 (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.

(defbitfield (gpgme-genkey-flags-t :unsigned-int)
 "Flags used for the key generation result bitfield."
 (:primary #x0001)
 (:sub #x0002)
 (:uid #x0004))

(defcstruct gpgme-op-genkey-result
 "Key generation result structure."
 (bitfield gpgme-genkey-flags-t)
 (fpr :string))

(defctype gpgme-op-genkey-result-t :pointer
 "A
 key generation result structure.")

(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
   gpgme-op-genkey-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))

(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))

;;; Key deletion.

(defcfun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))

(defcfun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))
```

```
;;; FIXME: Add edit interfaces.

;;; Keylist interface.

(defbitfield (gpgme-keylist-flags-t :unsigned-int)
 "Flags used for the key listing result bitfield."
 (:truncated #x0001))

(defcstruct gpgme-op-keylist-result
 "Key listing result structure."
 (bitfield
 gpgme-keylist-flags-t))

(defctype gpgme-op-keylist-result-t :pointer
 "A key listing result structure.")

(defcfun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
   gpgme-op-keylist-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (secret_only :boolean))

;;; FIXME: Extended keylisting requires array handling.

(defcfun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
 (ctx gpgme-ctx-t)
 (r-key :pointer))

(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
 (ctx gpgme-ctx-t))

;;; Various functions.

(defcfun ("gpgme_check_version" c-gpgme-check-version) :string
 (req-version string-or-nil-t))

(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
 (engine-info-p :pointer))

(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir
```

```
 string-or-nil-t))

(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-verson)
   gpgme-error-t
 (proto gpgme-protocol-t))

;;;
;;; L I S P   I N T E R F A C E
;;;

;;;
;;; Lisp type translators.
;;;

;;; Both directions.

;;; cert-int-t is a helper type that takes care of representing the
;;; default number of certs as NIL.

(defun translate-cert-int-t-from-foreign (value)
 (cond
   ((eql value +include-certs-default+) nil)
   (t value)))

(defun translate-cert-int-t-to-foreign (value)
 (cond
   (value value)
   (t +include-certs-default+)))

;;; string-or-nil-t translates a null pointer to NIL and vice versa.
;;; Translation from foreign null pointer already works as expected.

(defun translate-string-or-nil-t-to-foreign (value)
 (cond
   (value value)
   (t (null-pointer))))

;;; Output only.

;;; These type translators only convert from foreign type, because we
;;; never use these types in the other direction.

;;; Convert gpgme-engine-info-t linked lists into a
 list of property
;;; lists.  Note that this converter will automatically be invoked
;;; recursively.
;;;
;;; FIXME: Should we use a hash table (or struct, or clos) instead of
```

```
;;; property list, as recommended by the Lisp FAQ?

(defun translate-gpgme-engine-info-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next protocol file-name version req-version home-dir)
    value (:struct gpgme-engine-info))
  (append (list protocol (list
       :file-name file-name
       :version version
       :req-version req-version
       :home-dir home-dir))
  next)))))

(defun translate-gpgme-invalid-key-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next fpr reason)
    value (:struct gpgme-invalid-key))
  (append (list (list :fpr fpr
       :reason reason))
  next)))))

(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots

  ((invalid-recipients)
    value (:struct gpgme-op-encrypt-result))
  (list :encrypt
       (list :invalid-recipients invalid-recipients))))))

(defun translate-gpgme-recipient-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next keyid pubkey-algo status)
    value (:struct gpgme-recipient))
  (append (list (list :keyid keyid
       :pubkey-algo pubkey-algo
       :status status))
  next)))))

(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
 (cond
```

```
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((unsupported-algorithm bitfield recipients file-name)
    value (:struct gpgme-op-decrypt-result))
  (list :decrypt (list :unsupported-algorithm unsupported-algorithm
        :bitfield bitfield
        :recipients recipients
        :file-name file-name))))))

(defun translate-gpgme-new-signature-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next
 type pubkey-algo hash-algo timestamp fpr sig-class)
    value (:struct gpgme-new-signature))
  (append (list (list :type type
       :pubkey-algo pubkey-algo
       :hash-algo hash-algo
       :timestamp timestamp
       :fpr fpr
       :sig-class sig-class))
  next)))))

(defun translate-gpgme-op-sign-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((invalid-signers signatures)
    value (:struct gpgme-op-sign-result))
  (list :sign (list :invalid-signers invalid-signers
     :signatures signatures))))))

(defun translate-gpgme-signature-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next summary fpr status notations timestamp
   exp-timestamp bitfield validity validity-reason
   pubkey-algo hash-algo)
    value (:struct gpgme-signature))
  (append (list (list :summary summary
       :fpr fpr
       :status status
       :notations notations
       :timestamp timestamp
```

```
    :exp-timestamp exp-timestamp
      :bitfield bitfield
      :validity validity
      :validity-reason validity-reason
      :pubkey-algo pubkey-algo))
  next)))))

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((signatures file-name)
    value (:struct gpgme-op-verify-result))
  (list :verify (list :signatures signatures
      :file-name file-name))))))

(defun translate-gpgme-import-status-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next fpr result status)
    value (:struct gpgme-import-status))
  (append (list (list :fpr fpr
      :result result
      :status status))
  next)))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((considered no-user-id imported imported-rsa unchanged
  new-user-ids new-sub-keys new-signatures
  new-revocations
 secret-read secret-imported
  secret-unchanged skipped-new-keys not-imported
  imports)
    value (:struct gpgme-op-import-result))
  (list :verify (list :considered considered
      :no-user-id no-user-id
      :imported imported
      :imported-rsa imported-rsa
      :unchanged unchanged
      :new-user-ids new-user-ids
      :new-sub-keys new-sub-keys
      :new-signatures new-signatures
      :new-revocations new-revocations
      :secret-read secret-read
```

```
        :secret-imported secret-imported
        :secret-unchanged secret-unchanged
        :skipped-new-keys skipped-new-keys
        :not-imported not-imported
        :imports imports))))))

;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.
;;;
;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
 ((value :initarg :gpgme-error :reader gpgme-error-value))
 (:report (lambda (c stream)

    (format stream "GPGME returned error: ~A (~A)"
      (gpgme-strerror (gpgme-error-value c))
      (gpgme-strsource (gpgme-error-value c)))))
 (:documentation "Signalled when a GPGME function returns an error."))

(defun translate-gpgme-error-t-from-foreign (value)
 "Raise a GPGME-ERROR if VALUE is non-zero."
 (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
   (error 'gpgme-error :gpgme-error value))
 (gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
 "Canonicalize the error value."
 (if (eql (gpgme-err-code value) :gpg-err-no-error)
    0
    (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
 "Canonicalize the error value."
 (gpg-err-canonicalize value))


;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;; interface.

;;; Passphrase callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar
```

```
 *passphrase-handles* (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
  passphrase callback object as value.")

(defcallback passphrase-cb gpgme-error-t ((handle :pointer)
       (uid-hint :string)
       (passphrase-info :string)
       (prev-was-bad :boolean)
       (fd :int))
 (handler-case
     (let* ((passphrase-cb
       (gethash (pointer-address handle) *passphrase-handles*))
      (passphrase
       (cond
  ((functionp passphrase-cb)
   (concatenate 'string
         (funcall passphrase-cb uid-hint passphrase-info
           prev-was-bad)
         '(#\Newline)))
  (t (concatenate 'string passphrase-cb '(#\Newline)))))
      (passphrase-len (length passphrase))
      ;; FIXME: Could be more robust.
      (res (system-write fd passphrase passphrase-len)))
 (cond
   ((< res passphrase-len) ; FIXME: Blech.  A weak attempt to be robust.
    (gpgme-error :gpg-err-inval))
   (t (gpgme-error :gpg-err-no-error))))
   (gpgme-error (err)
 (gpgme-error-value err))
   (system-error (err) (gpgme-error-from-errno (system-error-errno err)))
   ;; FIXME: The original error gets lost here.
   (condition (err) (progn
         (when *debug*
     (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%"
      err))
         (gpgme-error :gpg-err-general)))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
 "Set the passphrase callback for CTX."
 (let ((handle (pointer-address ctx)))
   (cond
     (cb (setf (gethash handle *passphrase-handles*) cb)
   (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
     (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer))
  (remhash handle *passphrase-handles*)))))

;;; Progress callback management.
```

```
;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar *progress-handles* (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
  progress callback
 object as value.")

(defcallback progress-cb :void ((handle :pointer)
    (what :string)
    (type :int)
    (current :int)
    (total :int))
 (handler-case
     (let* ((progress-cb
       (gethash (pointer-address handle) *progress-handles*)))
 (funcall progress-cb what type current total))
   ;; FIXME: The original error gets lost here.
   (condition (err) (when *debug*
        (format t "DEBUG: progress-cb: Unexpressable: ~A~%"
         err)))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
 "Set the progress callback for CTX."
 (let ((handle (pointer-address ctx)))
   (cond
     (cb (setf (gethash handle *progress-handles*) cb)
   (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
     (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
  (remhash handle *progress-handles*)))))

;;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs
    keylist-mode passphrase progress file-name
 home-dir)
 "Allocate a new GPGME context."
 (with-foreign-object (ctx-p 'gpgme-ctx-t)
   (c-gpgme-new ctx-p)
   (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
     ;;; Set locale?
     (gpgme-set-protocol ctx protocol)
     (gpgme-set-armor ctx armor)
     (gpgme-set-textmode ctx textmode)
     (when include-certs (gpgme-set-include-certs ctx include-certs))
     (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
```

```
    (gpgme-set-passphrase-cb ctx passphrase)
    (gpgme-set-progress-cb ctx progress)
    (gpgme-set-engine-info ctx protocol
      :file-name file-name :home-dir home-dir)
    (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx))
    ctx)))

(defun gpgme-release (ctx)
 "Release a GPGME context."
 (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
 (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
 "Set the protocol to be used by CTX to PROTO."
 (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
 "Get
 the protocol used with CTX."
 (c-gpgme-get-protocol ctx))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
 "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
(c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
 "Return true if armor mode is set for CTX."
 (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
 "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
(c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
 "Return true if text mode mode is set for CTX."
 (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
 "Include up to CERTS certificates in an S/MIME message."
 (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
 "Return the number of certs to include in an S/MIME message,
  or NIL if the default is used."
```

```
 (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
 (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
 "Set the keylist mode in CTX."
 (c-gpgme-set-keylist-mode ctx mode))


;;; FIXME: How to handle locale?  cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
 "Retrieve the engine info for CTX, or the default if CTX is omitted."
 (cond
   (ctx (c-gpgme-ctx-get-engine-info ctx))
   (t (with-foreign-object (info-p 'gpgme-engine-info-t)
  (c-gpgme-get-engine-info info-p)
  (mem-ref info-p 'gpgme-engine-info-t)))))

(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
 "Set the engine info for CTX, or the default if CTX is NIL."
 (cond
   (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
   (t (c-gpgme-set-engine-info proto file-name home-dir))))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
 "Set the signers for the context CTX."
 (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
 "Set the sig notation for the context CTX."
 (c-gpgme-sig-notation-clear ctx)
 (dolist (notation notations)
   (c-gpgme-sig-notation-add
    ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
 "Get the signature notation data for the context CTX."
 (c-gpgme-sig-notation-get ctx))
```

```
;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
;;; -------
;;;
;;; GPGME uses standard streams.  You can define your own streams, or
;;; use the existing file or string streams.
;;;
;;; A stream-spec is either a stream, or a list with a stream as its
;;; first argument followed by keyword parameters: encoding,
;;; file-name.
;;;
;;; FIXME: Eventually, we should provide a class that can be mixed
;;; into stream classes and which provides accessors for encoding and
;;; file-names.  This interface
 should be provided in addition to the
;;; above sleazy interface, because the sleazy interface is easier to
;;; use (less typing), and is quite sufficient in a number of cases.
;;;
;;; For best results, streams with element type (unsigned-byte 8)
;;; should be used.  Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams
;;; as well?  It seems to me that specific optimizations, like
;;; directly writing to file descriptors, is better done by extending
;;; the sleazy syntax (stream-spec) instead of customized streams.
;;; Customized streams do buffering, and this may mess up things.  Mmh.

(defvar *data-handles* (make-hash-table)
 "Hash table with GPGME data user callback handle address as key
  and the corresponding stream as value.")

;;; The release callback removes the stream from the *data-handles*
;;; hash and releases the CBS structure that is used as the key in
;;; that hash.  It is implicitly invoked (through
 GPGME) by
;;; gpgme-data-release.
(defcallback data-release-cb :void ((handle :pointer))
 (unwind-protect (remhash (pointer-address handle) *data-handles*)
   (when (not (null-pointer-p handle)) (foreign-free handle))))

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
                                   (size size-t))
 (when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))
 (let ((stream (gethash (pointer-address handle) *data-handles*)))
```

```
  (cond
    (stream
     (let* ((stream-type (stream-element-type stream))
            (seq (make-array size :element-type stream-type))
            (read (read-sequence seq stream)))
       (cond
         ((equal stream-type '(unsigned-byte 8))
          (dotimes (i read)
            (setf (mem-aref buffer :unsigned-char i)
                  (aref (the byte-array seq) i))))
         ((eql stream-type 'character)
          (dotimes (i read)
            (setf (mem-aref buffer :unsigned-char
i)
                  (char-code (aref (the character-array seq) i)))))
         (t
          (dotimes (i read)
            (setf (mem-aref buffer :unsigned-char i)
                  (coerce (aref seq i) '(unsigned-byte 8))))))
       (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))
       read))
    (t
     (set-errno +ebadf+)
     -1))))

(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer)
                                    (size size-t))
 (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
 (let ((stream (gethash (pointer-address handle) *data-handles*)))
   (cond
     (stream
      (let* ((stream-type (stream-element-type stream))
             (seq (make-array size :element-type stream-type)))
        (cond
          ((equal stream-type '(unsigned-byte 8))
           (dotimes (i size)
             (setf (aref (the byte-array seq) i)
                   (mem-aref buffer :unsigned-char i))))
          ((eql stream-type 'character)
           (dotimes (i size)
             (setf (aref (the character-array seq) i)
                   (code-char (mem-aref buffer :unsigned-char i)))))
          (t
           (dotimes (i size)
             (setf (aref seq i)
                   (coerce (mem-aref buffer :unsigned-char i) stream-type)))))
        (write-sequence seq stream)
        size))
```

```
    (t
     (set-errno +ebadf+)
     -1))))

;;; This little helper macro allows us to swallow the cbs structure by
;;; simply setting it to a null pointer, but still protect against
;;; conditions.
(defmacro with-cbs-swallowed ((cbs) &body body)
 `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
   (unwind-protect (progn ,@body)
     (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs)))))

(defun gpgme-data-new (stream &key encoding file-name)
 "Allocate a new GPGME data object for STREAM."
 (with-foreign-object (dh-p 'gpgme-data-t)
   ;;; We allocate one CBS structure
 for each stream we wrap in a
   ;;; data object.  Although we could also share all these
   ;;; structures, as they contain the very same callbacks, we need a
   ;;; unique C pointer as handle anyway to look up the stream in the
   ;;; callback.  This is a convenient one to use.
   (with-cbs-swallowed (cbs)
     (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
           (callback data-read-cb))
     (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
           (callback data-write-cb))
     (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
           (null-pointer))
     (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
           (callback data-release-cb))
     (c-gpgme-data-new-from-cbs dh-p cbs cbs)
     (let ((dh (mem-ref dh-p 'gpgme-data-t)))
 (when encoding (gpgme-data-set-encoding dh encoding))
 (when file-name (gpgme-data-set-file-name dh file-name))
 ;;; Install the stream into the hash table and
 swallow the cbs
       ;;; structure while protecting against any errors.
 (unwind-protect
      (progn
       (setf (gethash (pointer-address cbs) *data-handles*) stream)
       (setf cbs (null-pointer)))
   (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh)))
 (when *debug* (format t "DEBUG: gpgme-data-new: ~A~%" dh))
 dh))))

;;; This function releases a GPGME data object.  It implicitly
;;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
```

```
 "Release a GPGME data object."
 (when *debug* (format t "DEBUG: gpgme-data-release: ~A~%" dh))
 (c-gpgme-data-release dh))

(defclass data ()
 (c-data)  ; The C data object pointer
 (:documentation "The GPGME data type."))

(defmethod initialize-instance :after ((data data) &key streamspec
                                       &allow-other-keys)
 (let ((c-data (if (listp streamspec)
                   (apply #'gpgme-data-new streamspec)
                   (gpgme-data-new streamspec)))
       (cleanup t))
   (unwind-protect
       (progn
         (setf (slot-value data 'c-data) c-data)
         (finalize data (lambda () (gpgme-data-release c-data)))
         (setf cleanup nil))
     (if cleanup (gpgme-data-release c-data)))))

(defun translate-gpgme-data-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (cond
   ((null value) (null-pointer))
   ((pointerp value) value)
   (t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
 `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
    ,@body))

(defun gpgme-data-get-encoding (dh)
 "Get the encoding associated with the data object DH."
 (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
 "Set the encoding associated with the data object DH to ENCODING."
 (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
 "Get the file name associated with the data object
 DH."
 (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
 "Set the file name associated with the data object DH to FILE-NAME."
 (c-gpgme-data-set-file-name dh file-name))
```

```
;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
 "Get the key with the fingerprint FPR from the context CTX."
 (with-foreign-object (key-p 'gpgme-key-t)
   (c-gpgme-get-key ctx fpr key-p secret)
   (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
 "Acquire an additional reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
 (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
 "Release a reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
 (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.

;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
 (c-gpgme-check-version req-version))

;;;
;;;
 The *EXPORTED* CLOS interface.
;;;

;;; The context type.

;;; We wrap the C context pointer into a class object to be able to
;;; stick a finalizer on it.

(defclass context ()
 (c-ctx  ; The C context object pointer.
  signers ; The list of signers.
  sig-notation) ; The list of signers.
 (:documentation "The GPGME context type."))

(defmethod initialize-instance :after ((ctx context) &rest rest
         &key &allow-other-keys)
 (let ((c-ctx (apply #'gpgme-new rest))
 (cleanup t))
   (unwind-protect
```

```
  (progn (setf (slot-value ctx 'c-ctx) c-ctx)
  (finalize ctx (lambda () (gpgme-release c-ctx)))
  (setf cleanup nil))
    (if cleanup (gpgme-release c-ctx)))))

(defun translate-gpgme-ctx-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (if (pointerp value) value (slot-value value 'c-ctx)))

(defmacro context (&rest rest)
 "Create a new GPGME context."
 `(make-instance 'context ,@rest))

;;; The context type: Accessor
 functions.

;;; The context type: Accessor functions: Protocol.

(defgeneric protocol (ctx)
 (:documentation "Get the protocol of CONTEXT."))

(defmethod protocol ((ctx context))
 (gpgme-get-protocol ctx))

(defgeneric (setf protocol) (protocol ctx)
 (:documentation "Set the protocol of CONTEXT to PROTOCOL."))

;;; FIXME: Adjust translator to reject invalid protocols.  Currently,
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"
;;; error.  This is suboptimal.
(defmethod (setf protocol) (protocol (ctx context))
 (gpgme-set-protocol ctx protocol))

;;; The context type: Accessor functions: Armor.
;;; FIXME: Is it good style to make foop setf-able?  Or should it be
;;; foo/foop for set/get?

(defgeneric armorp (ctx)
 (:documentation "Get the armor flag of CONTEXT."))

(defmethod armorp ((ctx context))
 (gpgme-armor-p ctx))

(defgeneric (setf armorp) (armor ctx)
 (:documentation "Set the armor flag of CONTEXT to ARMOR."))

(defmethod (setf armorp) (armor (ctx
```

```
 context))
 (gpgme-set-armor ctx armor))

;;; The context type: Accessor functions: Textmode.
;;; FIXME: Is it good style to make foop setf-able?  Or should it be
;;; foo/foop for set/get?

(defgeneric textmodep (ctx)
 (:documentation "Get the text mode flag of CONTEXT."))

(defmethod textmodep ((ctx context))
 (gpgme-textmode-p ctx))

(defgeneric (setf textmodep) (textmode ctx)
 (:documentation "Set the text mode flag of CONTEXT to TEXTMODE."))

(defmethod (setf textmodep) (textmode (ctx context))
 (gpgme-set-textmode ctx textmode))

;;; The context type: Accessor functions: Include Certs.

(defgeneric include-certs (ctx)
 (:documentation "Get the number of included certificates in an
            S/MIME message, or NIL if the default is used."))

(defmethod include-certs ((ctx context))
 (gpgme-get-include-certs ctx))

(defgeneric (setf include-certs) (certs ctx)
 (:documentation "Return the number of certificates to include in an
            S/MIME message, or
 NIL if the default is used."))

(defmethod (setf include-certs) (certs (ctx context))
 (gpgme-set-include-certs ctx certs))

;;; The context type: Accessor functions: Engine info.

(defgeneric engine-info (ctx)
 (:documentation "Retrieve the engine info for CTX."))

(defmethod engine-info ((ctx context))
 (gpgme-get-engine-info ctx))

(defgeneric (setf engine-info) (info ctx)
 (:documentation "Set the engine info for CTX."))

(defmethod (setf engine-info) (info (ctx context))
```

```
 (dolist (proto '(:openpgp :cms))
   (let ((pinfo (getf info proto)))
     (when pinfo
 (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
         :home-dir (getf pinfo :home-dir))))))

;;; The context type: Accessor functions: Keylist mode.

(defgeneric keylist-mode (ctx)
 (:documentation "Get the keylist mode of CTX."))

(defmethod keylist-mode ((ctx context))
 (gpgme-get-keylist-mode ctx))

(defgeneric (setf keylist-mode) (mode ctx)
 (:documentation "Set the keylist mode of CTX to MODE."))

(defmethod
 (setf keylist-mode) (mode (ctx context))
 (gpgme-set-keylist-mode ctx mode))

;;; The context type: Accessor functions: Signers.

(defgeneric signers (ctx)
 (:documentation "Get the signers of CTX."))

(defmethod signers ((ctx context))
 (slot-value ctx 'signers))

(defgeneric (setf signers) (signers ctx)
 (:documentation "Set the signers of CTX to SIGNERS."))

(defmethod (setf keylist-mode) (signers (ctx context))
 (gpgme-set-signers ctx signers)
 (setf (slot-value ctx 'signers) signers))

;;; The context type: Accessor functions: Sig notations.

(defgeneric sig-notations (ctx)
 (:documentation "Get the signature notations of CTX."))

(defmethod sig-notations ((ctx context))
 (slot-value ctx 'signers))

(defgeneric (setf sig-notations) (notations ctx)
 (:documentation "Set the signatire notations of CTX to NOTATIONS."))

(defmethod (setf sig-notations) (notations (ctx context))
```

```
 (gpgme-set-signers ctx notations)
 (setf (slot-value ctx 'notations) notations))

;;;
 The context type: Support macros.

(defmacro with-context ((ctx &rest rest) &body body)
 `(let ((,ctx (make-instance 'context ,@rest)))
   ,@body))

;;; The key type.

(defclass key ()
 (c-key)  ; The C key object pointer.
 (:documentation "The GPGME key type."))

;;; In the initializer, we swallow the c-key argument.
(defmethod initialize-instance :after ((key key) &key c-key
         &allow-other-keys)
 (setf (slot-value key 'c-key) c-key)
 (finalize key (lambda () (gpgme-key-unref c-key))))

(defun translate-gpgme-key-t-from-foreign (value)
 (when *debug* (format t "DEBUG: import key: ~A~%" value))
 (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (if (pointerp value) value (slot-value value 'c-key)))

(defmethod print-object ((key key) stream)
 (print-unreadable-object (key stream :type t :identity t)
   (format stream "~s" (fpr key))))

;;; The key type:
 Accessor functions.

;;; FIXME: The bitfield and flags contain redundant information at
;;; this point.  FIXME: Deal nicer with zero-length name (policy url)
;;; and zero length value (omit?) and human-readable (convert to string).
;;; FIXME: Turn binary data into sequence or vector or what it should be.
;;; FIXME: Turn the whole thing into a hash?
(defun translate-gpgme-sig-notation-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next name value name-len value-len flags bitfield)
     value (:struct gpgme-sig-notation))
```

```
  (append (list (list
   :name name
   :value value
   :name-len name-len
   :value-len value-len
   :flags flags
   :bitfield bitfield))
   next)))))

;;; FIXME: Deal nicer with timestamps.  bitfield field name?
(defun translate-gpgme-subkey-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next bitfield pubkey-algo length keyid fpr timestamp expires)
     value (:struct gpgme-subkey))

 (append (list (list
   :bitfield bitfield
   :pubkey-algo pubkey-algo
   :length length
   :keyid keyid
   :fpr fpr
   :timestamp timestamp
   :expires expires))
   next)))))

(defun translate-gpgme-key-sig-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next bitfield pubkey-algo keyid timestamp expires status
    uid name email comment sig-class)
     value (:struct gpgme-key-sig))
  (append (list (list
   :bitfield bitfield
   :pubkey-algo pubkey-algo
   :keyid keyid
   :timestamp timestamp
   :expires expires
   :status status
   :uid uid
   :name name
   :email email
   :comment comment
   :sig-class sig-class))
   next)))))
```

```
(defun translate-gpgme-user-id-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next bitfield validity uid name email comment signatures)
     value (:struct gpgme-user-id))
  (append (list (list
   :bitfield bitfield
   :validity validity
   :uid uid
   :name
  name
   :email email
   :comment comment
   :signatures signatures))
   next)))))

(defun key-data (key)
 (with-slots (c-key) key
   (with-foreign-slots
 ((bitfield protocol issuer-serial issuer-name chain-id
     owner-trust subkeys uids keylist-mode)
  c-key (:struct gpgme-key))
     (list
      :bitfield bitfield
      :protocol protocol
      :issuer-serial issuer-serial
      :issuer-name issuer-name
      :chain-id chain-id
      :owner-trust owner-trust
      :subkeys subkeys
      :uids uids
      :keylist-mode keylist-mode))
   ))


(defgeneric fpr (key)
 (:documentation "Get the primary fingerprint of the key."))

(defmethod fpr ((key key))
 (getf (car (getf (key-data key) :subkeys)) :fpr))


;;; The context type: Crypto-Operations.

(defgeneric get-key (ctx fpr &optional secret)
 (:documentation "Get the (secret) key FPR from CTX."))
```

```
(defmethod get-key ((ctx context) fpr &optional secret)
 (gpgme-get-key ctx fpr secret))

;;; Encrypt.

(defgeneric
 op-encrypt (ctx recp plain cipher &key always-trust sign)
 (:documentation "Encrypt."))

(defmethod op-encrypt ((ctx context) recp plain cipher
        &key always-trust sign)
 (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
  (dotimes (i (length recp))
    (setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
  (setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
  (with-gpgme-data (in plain)
    (with-gpgme-data (out cipher)
 (let ((flags))
  (if always-trust (push :always-trust flags))
  (cond
    (sign
     (c-gpgme-op-encrypt-sign ctx c-recp flags in out)
     (append (c-gpgme-op-encrypt-result ctx)
      (c-gpgme-op-sign-result ctx)))
    (t
     (c-gpgme-op-encrypt ctx c-recp flags in out)
     (c-gpgme-op-encrypt-result ctx))))))))

;;; Decrypt.

(defgeneric op-decrypt (ctx cipher plain &key verify)
 (:documentation "Decrypt."))

(defmethod op-decrypt ((ctx context) cipher plain &key verify)
 (with-gpgme-data (in cipher)
  (with-gpgme-data
 (out plain)
    (cond
 (verify
  (c-gpgme-op-decrypt-verify ctx in out)
  (append (c-gpgme-op-decrypt-result ctx)
   (c-gpgme-op-verify-result ctx)))
 (t
  (c-gpgme-op-decrypt ctx in out)
  (c-gpgme-op-decrypt-result ctx))))))

;;; Signing.
```

```
(defgeneric op-sign (ctx plain sig &optional mode)
 (:documentation "Sign."))

(defmethod op-sign ((ctx context) plain sig &optional (mode :none))
 (with-gpgme-data (in plain)
   (with-gpgme-data (out sig)
     (c-gpgme-op-sign ctx in out mode)
     (c-gpgme-op-sign-result ctx))))

;;; Verify.

(defgeneric op-verify (ctx sig text &key detached)
 (:documentation "Verify."))

(defmethod op-verify ((ctx context) sig text &key detached)
 (with-gpgme-data (in sig)
   (with-gpgme-data (on text)
     (c-gpgme-op-verify ctx in (if detached on nil)
    (if detached nil on))
     (c-gpgme-op-verify-result ctx))))

;;; Import.

(defgeneric op-import (ctx keydata)
 (:documentation "Import."))

(defmethod op-import ((ctx context) keydata)
  (with-gpgme-data (in keydata)
   (c-gpgme-op-import ctx in)
   (c-gpgme-op-import-result ctx)))

;;; Export.

(defgeneric op-export (ctx pattern keydata)
 (:documentation "Export public key data matching PATTERN to the
                 stream KEYDATA."))

(defmethod op-export ((ctx context) pattern keydata)
 (with-gpgme-data (dh keydata)
   (c-gpgme-op-export ctx pattern 0 dh)))

;;; Key generation.



;;;
;;; Initialization
;;;
```

```
(defun check-version (&optional req-version)
 "Check that the GPGME version requirement is satisfied."
 (gpgme-check-version req-version))

(defparameter *version* (check-version)
 "The version number of GPGME used.")
(21:protected-private-key(3:elg(1:p193:5*n^f"Q'R0_6<ymec \=c7S8u[5
ZF'xf5yi9F@T=KhZdU0(k5nZEI/ R]njVITPU$W<xs-Yx)(1:g1:)(1:y192:O9GNR{?]Y_W[FD*zuRmk%'R\'>>e9pe
eU)uS%VJ!5F)yH*O
]l'7{@wJmQP^jurx'V2H2j[G{q_"8()(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:o"%7:5242880)16:Hs*}u
)256:Gzk3%\Kb2=oOO@,}eBBI3F|OQP3eD%n,;~L-6UH^=64i);l
e+sG"(mlH_2sn_BBO7hRcZUt(p6,{5|37C3m8EY9=gQ )(12:protected-at15:20101008T070148)))
# -*- mode: org -*-
#+TITLE: A Short History of the GPGME bindings for Python
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}

* Overview
 :PROPERTIES:
 :CUSTOM_ID: overview
 :END:

| Version:        | 0.0.1                                |
| GPGME Version:  | 1.13.0                               |
| Author:         | Ben McGinnes <ben@gnupg.org>         |
| Author GPG Key: | DB4724E6FA4286C92B4E55C4321E4E2373590E5D |
| Language:       | Australian English, British English  |
| xml:lang:       | en-AU, en-GB, en                     |

The GPGME Python bindings passed through many hands and numerous
phases before, after a fifteen year journey, coming full circle to
return to the source.  This is a short explanation of that journey.

** In the beginning
  :PROPERTIES:
  :CUSTOM_ID: in-the-begining
   :END:

  In 2002 John Goerzen released PyME; Python bindings for the GPGME
  module which utilised the current release of Python of the time and
  SWIG.[fn:1]  Shortly after creating it and ensuring it worked he stopped
  supporting it, though he left his work available on his Gopher
  site.
```

** Keeping the flame alive
:PROPERTIES:
:CUSTOM_ID: keeping-the-flame-alive
:END:

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

** Passing the torch
:PROPERTIES:
:CUSTOM_ID: passing-the-torch
:END:

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he
became the new maintainer for PyME, releasing
version 0.9.0 in May of that year. He remains the maintainer of the original PyME release in Python 2.6 and 2.7 (available via PyPI).

** Coming full circle
:PROPERTIES:
:CUSTOM_ID: ouroboros
:END:

In 2015 Ben McGinnes approached Martin about a Python 3 version, while investigating how complex a task this would be the task ended up being completed. A subsequent discussion with Werner Koch led to the decision to fold the Python 3 port back into the original GPGME release in the languages subdirectory for non-C bindings under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project by Justus Winter. During the course of this work Justus adjusted the port to restore limited support for Python 2, but not as many minor point releases as the original PyME package supports. During the course of this integration the package was renamed to more accurately
reflect its status as a component of GPGME. The =pyme3= module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this Ben returned to maintain of gpgme Python bindings and continue building them from that point.

* Relics of the past
:PROPERTIES:
:CUSTOM_ID: relics-past
:END:

There are a few things, in addition to code specific factors, such as SWIG itself, which are worth noting here.

** The Annoyances of Git
:PROPERTIES:
:CUSTOM_ID: the-annoyances-of-git
:END:

As anyone who has ever worked with git knows, submodules are horrible way to deal with pretty much anything. In the interests of avoiding migraines, that was skipped with addition of the PyME code to GPGME.

Instead the files were added to a subdirectory of the =lang/= directory, along with a copy of the entire git log up to that point as a separate file within the =lang/python/docs/= directory.[fn:2] As the log for PyME is nearly 100KB and the log for GPGME is approximately 1MB, this would cause considerable bloat, as well as some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the files. A regular repository version has been maintained should it be possible to implement this better in the future.

** The Perils of PyPI
:PROPERTIES:
:CUSTOM_ID: the-perils-of-pypi
:END:

The early port of the Python 2 =pyme= module as =pyme3= was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from =pyme3= to =gpg=, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME

libraries in order to function, it was determined that there was
little benefit in also providing a copy
through PyPI since anyone
obtaining the GPGME source code would obtain the Python bindings
source code at the same time. Whereas there was the potential to
sew confusion amongst Python users installing the module from PyPI,
only to discover that without the relevant C files, header files or
SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search
for this module or a sample of its content:

1. gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. pyme (0.9.0) - Python support for GPGME GnuPG cryptography library

*** GPG 180 - Python bindings for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-180
:END:

This is the most recent version to reach PyPI and is the version
of the official Pyhon bindings which shipped with GPGME 1.8.0. If
you have GPGME 1.8.0 installed and /only/ 1.8.0 installed, then it
is probably safe to use
this copy from PyPI.

As there have been a lot of changes since the release of GPGME
1.8.0, the GnuPG Project recommends not using this version of the
module and instead installing the current version of GPGME along
with the Python bindings included with that package.

*** PyME 090 - Python support for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-90
:END:

This is the last release of the PyME bindings maintained by Martin
Albrecht and is only compatible with Python 2, it will not work
with Python 3. This is the version of the software from which the
port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous
points of similarity, but also significant differences. It is
likely that the more recent official bindings will feel "more
pythonic."

For those using Python 2, there is essentially no harm in using

this module, but it may lack
a number of more recent features
added to GPGME.

* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly
Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are
located in the =gpgme/lang/python/docs/old-commits.log= file.
HACKING -*- org -*-
#+TITLE: Hacking notes for GPGME
#+STARTUP: showall

* How to contribute
** No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist" time. As such, there are strict requirements on the
form of the commit log messages. The old ChangeLog files have all
be renamed to ChangeLog-2011

** Commit log requirements

Your commit log should always start with a one-line summary, the
second line should be blank, and the remaining lines are usually
ChangeLog-style entries for all affected files. However, it's fine
-- even recommended -- to write a few lines of prose describing the
change, when the summary and ChangeLog entries don't give enough of
the big picture. Omit the leading TABs that you're used to seeing
in a "real" ChangeLog
file, but keep the maximum line length at 72
or smaller, so that the generated ChangeLog lines, each with its
leading TAB, will not exceed 80 columns. If you want to add text
which shall not be copied to the ChangeLog, separate it by a line
consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax
checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry;
thus you would use a commit message like

#+begin_example
Fix typo in a comment

--
#+end_example

The marker line here is important; without it the first line would
appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may
do this after this scissor line:
#+begin_example
------------------------ >8 ------------------------
#+end_example
(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).
Note that such a comment will be removed if the
git commit option
=--cleanup-scissor= is used.

** License policy

GPGME is currently licensed under the LGPLv2.1+ with tools and the
manual being under the GPLv3+. We may eventually update to a newer
version of the licenses or a combination of them. It is thus
important, that all contributed code allows for an update of the
license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are
asked to assert that the contribution is in accordance to the "GPGME
Developer's Certificate of Origin" as found in the file "DCO".
Except for a slight wording change, this DCO is identical to the one
used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real
  name in the address and not a pseudonym. Anonymous contributions
  can only be done if you find a proxy who certifies for you.

- If your employer or school might claim ownership
of code written
  by you; you need to talk to them to make sure that you have the
  right to contribute under the DCO.

- Send an OpenPGP signed mail to the gnupg-devel@gnupg.org public
  mailing list from your mail address. Include a copy of the DCO as
  found in the official master branch. Insert your name and email
  address into the DCO in the same way you want to use it later.
  Example:

Signed-off-by: Joe R. Hacker <joe@example.org>

If you need it, you may perform simple transformations on the mail address: Replacing "@" by " at " or "." by " dot ".)

- That's it. From now on you only need to add a "Signed-off-by:" line with your name and mail address to the GIT commit message. It is recommended to send the patches using a PGP/MIME signed mail.

** Coding standards

Please follow the GNU coding standards. If you are in doubt consult the existing code as an example. Do no re-indent code without a need. If you really need to
do it, use a separate commit for such a
change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ =//= style comments.
- Try to fit lines into 80 columns.
- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to char* first.

** Commit log keywords

- GnuPG-bug-id :: Values are comma or space delimited bug numbers
  from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporte.
- Suggested-by :: Value is a name or mail address of someone how
  suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of

  additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME_DEBUG enables debugging; see debug.[ch] for details.

Configuration files may go here. Note that config.h.in is
auto-generated so that this file is not in git.
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* libassuan.m4: Fix LIBASSUAN_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Fix code generation (required for Max OS X).
Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14
 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Disable _ac_pth_line, and don't fail if Pth is not
found.

* glibc21.m4: New file.
* gpg-error.m4: New file.
* pth.m4: New file.

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WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
GPGME Developer's Certificate of Origin. Version 1.0
===

By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I
  have the right to submit it under the free software license
  indicated in the file; or

(b) The contribution is based upon previous work that, to the
  best of my knowledge, is covered under an appropriate free
  software license and I have the right under that license to
  submit that work with modifications, whether created in whole
  or in part by me, under the same free software license
  (unless I am permitted to submit under a different license),
  as indicated in the file; or

(c) The contribution was provided directly to me by some other
  person who certified (a), (b) or (c) and I have not modified
  it.

(d) I understand and agree that this project and the contribution
  are public and that a record of the contribution
 (including
  all personal information I submit with it, including my
  sign-off) is maintained indefinitely and may be redistributed
  consistent with this project or the free software license(s)
  involved.

Signed-off-by: [Your name and mail address]
2011-12-02 Werner Koch <wk@g10code.com>

 NB: ChangeLog files are no longer manually maintained. Starting
 on December 1st, 2011 we put change information only in the GIT
 commit log, and generate a top-level ChangeLog file from logs at
 "make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

* gpgme.lisp (size-t): Wrong call to defctype: function accepts
optional, not keyword argument.
(ssize-t): Likewise.
(off-t): Likewise.
(gpgme-data-t, gpgme-ctx-t): Likewise.
(gpgme-error-t): Likewise.
(gpgme-error-no-signal-t): Likewise.
(gpgme-err-code-t): Likewise.
(gpgme-err-source-t): Likewise.
(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.
(gpgme-subkey-t): Likewise.
(gpgme-key-sig-t): Likewise.
(gpgme-user-id-t): Likewise.
(gpgme-key-t): Likewise.
(gpgme-data-cbs-t): Likewise.
(gpgme-invalid-key-t): Likewise.
(gpgme-op-encrypt-result-t): Likewise.
(gpgme-recipient-t): Likewise.
(gpgme-op-decrypt-result-t): Likewise.
(gpgme-new-signature-t):
Likewise.
(gpgme-op-sign-result-t): Likewise.
(gpgme-signature-t): Likewise.
(gpgme-op-verify-result-t): Likewise.
(gpgme-import-status-t): Likewise.
(gpgme-op-import-result-t): Likewise.
(gpgme-op-genkey-result-t): Likewise.
(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* Initial release.

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This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
-*- mode: org -*-
#+TITLE: What Was New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article

#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What Was New
 :PROPERTIES:
 :CUSTOM_ID: new-stuff
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

The following are all the past /What's New/ sections for the Python
Bindings HOWTO and other documentation.

** What Was New in GPGME 1120
  :PROPERTIES:

 :CUSTOM_ID: gpgme-1-12-0
  :END:

The most obviously new point for those reading this guide is this
section on other new things, but thats hardly important. Not given
all the other things which spurred the need for adding this section
and its subsections.

*** New in GPGME 1120
   :PROPERTIES:
   :CUSTOM_ID: new-stuff-1-12-0
   :END:

There have been quite a number of additions to GPGME and the Python
bindings to it since the last release of GPGME with versions 1.11.0
and 1.11.1 in April, 2018.

The bullet points of new additiions are:

- an expanded section on [[file:gpgme-python-howto#installation][installing]] and [[file:gpgme-python-howto#snafu][troubleshooting]] the Python

bindings.
- The release of Python 3.7.0; which appears to be working just fine
with our bindings, in spite of intermittent reports of problems for
many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python
versions list in the build process.
- In
order to fix some other issues, there are certain underlying
functions which are more exposed through the [[file:gpgme-python-howto#howto-get-context][gpg.Context()]], but
ongoing documentation ought to clarify that or otherwise provide the
best means of using the bindings. Some additions to =gpg.core= and
the =Context()=, however, were intended (see below).
- Continuing work in identifying and confirming the cause of
oft-reported [[file:gpgme-python-howto#snafu-runtime-not-funtime][problems installing the Python bindings on Windows]].
- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh,
right; Google's Summer of Code. Though there were two hopeful
candidates this year; only one ended up involved with the GnuPG
Project directly, the other concentrated on an unrelated third party
project with closer ties to one of the GNU/Linux distributions than
to the GnuPG Project. Thus the Python bindings benefited from GSOC
participant Jacob Adams, who added
the key_import function; building
on prior work by Tobias Mueller.
- Several new methods functions were added to the gpg.Context(),
including: [[file:gpgme-python-howto#howto-import-key][key_import]], [[file:gpgme-python-howto#howto-export-key][key_export]], [[file:gpgme-python-howto#howto-export-public-key][key_export_minimal]] and
[[file:gpgme-python-howto#howto-export-secret-key][key_export_secret]].
- Importing and exporting examples include versions integrated with
Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some
[[file:gpgme-python-howto#hkp4py][additional notes on this module]] are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations
like ProtonMail are also included. This is intended to make things
a little easier when communicating with users of ProtonMail's
services and should not be construed as an endorsement of said
service. The GnuPG Project neither favours,
nor disfavours
ProtonMail and the majority of this deals with interacting with the
ProtonMail keyserver.
- Semi-formalised the location where [[file:gpgme-python-howto#draft-editions][draft versions]] of this HOWTO may
periodically be accessible. This is both for the reference of
others and testing the publishing of the document itself. Renamed
this file at around the same time.
- The Texinfo documentation build configuration has been replicated
from the parent project in order to make to maintain consistency
with that project (and actually ship with each release).
- a reStructuredText (=.rst=) version is also generated for Python

developers more used to and comfortable with that format as it is
the standard Python documentation format and Python developers may
wish to use it with Sphinx. Please note that there has been no
testing of the reStructuredText version with Sphinx at all. The
reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
-
Added a new section for [[file:gpgme-python-howto#advanced-use][advanced or experimental use]].
- Began the advanced use cases with [[file:gpgme-python-howto#cython][a section]] on using the module with
[[https://cython.org/][Cython]].
- Added a number of new scripts to the =example/howto/= directory;
some of which may be in advance of their planned sections of the
HOWTO (and some are just there because it seemed like a good idea at
the time).
- Cleaned up a lot of things under the hood.
000
*H
010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0
981029180310Z
011231180310Z010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0"0
*H
0
nskvS2r#iA4H|*/
:Sd;v
tD}L+~IWWD|eP&qH)
!1\p%,1.tIsmnQ,g-W)@\(t<kvm5j(d)9M_KGQJ0:qTE 00 `HB0) `HBhttps://mystic.pca.dfn.de/0A
`HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html08 `HB
+)The DFN Top Level Certification Authority0! `HBcgi/check-rev.cgi?0 `HB
dfnpca.crl0U00U0
*H
`^[:8\e7*%QC?:/JVgwPUB
OgGqjGVxl50%<`Pb18 z;t~r0U<A%3#l'8b"<iX"V!k"*Q8&hAPI"3 00KUb&Qq'46_{D[JZ!i<=T
/OF
Wenn Sie dies lesen knnen, ist es wohl nicht
geheim genug.
1.13.1
This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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Public License for more details.
INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme). Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The
GnuPG Made Easy Reference Manual, for Version
1.12.1-beta100.

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gpgme.info-1: 1689
gpgme.info-2: 301885

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Ref: UI Server Protocol-Footnote-1290711
Node: UI Server Encrypt290830

Node: UI Server Sign296188
Node: UI Server Decrypt298541
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Node: UI Server Verify/Decrypt
Files308335
Node: UI Server Import/Export Keys310211
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End Tag Table

Local Variables:
coding: utf-8
End:
hkp4py
requests
\input texinfo   @c -*- texinfo -*-
@c %**start of header
@setfilename what-was-new.info
@settitle What Was New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What Was New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What Was New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu

* What Was New::

@detailmenu
--- The Detailed Node Listing ---

What Was New

* What Was New in GPGME 1120::

What Was New in GPGME 1120

* New in GPGME 1120::

@end detailmenu
@end menu

@node What Was New
@chapter What Was New

@multitable {aaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item
xml:lang:
@tab en-AU, en-GB, en
@end multitable

The following are all the past @emph{What's New} sections for the Python
Bindings HOWTO and other documentation.

@menu
* What Was New in GPGME 1120::
@end menu

@node What Was New in GPGME 1120
@section What Was New in GPGME 1120

The most obviously new point for those reading this guide is this
section on other new things, but thats hardly important. Not given
all the other things which spurred the need for adding this section

and its subsections.

@menu
* New in GPGME 1120::
@end menu

@node New in GPGME 1120
@subsection New in GPGME 1120

There have been quite a number of additions to GPGME and the Python
bindings to it since the last release of GPGME with versions 1.11.0
and 1.11.1 in April, 2018.

The bullet points of new additiions are:

@itemize
@item
an expanded section on @uref{gpgme-python-howto#installation, installing} and @uref{gpgme-python-howto#snafu, troubleshooting} the Python
bindings.
@item
The release of Python
3.7.0; which appears to be working just fine
with our bindings, in spite of intermittent reports of problems for
many other Python projects with that new release.
@item
Python 3.7 has been moved to the head of the specified python
versions list in the build process.
@item
In order to fix some other issues, there are certain underlying
functions which are more exposed through the @uref{gpgme-python-howto#howto-get-context, gpg.Context()}, but ongoing documentation ought to clarify that or otherwise provide the
best means of using the bindings. Some additions to @samp{gpg.core} and
the @samp{Context()}, however, were intended (see below).
@item
Continuing work in identifying and confirming the cause of
oft-reported @uref{gpgme-python-howto#snafu-runtime-not-funtime, problems installing the Python bindings on Windows}.
@item
GSOC: Google's Surreptitiously Ordered Conscription @dots{} erm @dots{} oh,
right; Google's Summer of Code. Though there were two hopeful
candidates this year;
only one ended up involved with the GnuPG
Project directly, the other concentrated on an unrelated third party
project with closer ties to one of the GNU/Linux distributions than
to the GnuPG Project. Thus the Python bindings benefited from GSOC
participant Jacob Adams, who added the key@math{_import} function; building
on prior work by Tobias Mueller.

@item
Several new methods functions were added to the gpg.Context(),
including: @uref{gpgme-python-howto#howto-import-key, key@math{_import}}, @uref{gpgme-python-howto#howto-export-key, key@math{_export}}, @uref{gpgme-python-howto#howto-export-public-key, key@math{_export}@math{_minimal}} and
@uref{gpgme-python-howto#howto-export-secret-key, key@math{_export}@math{_secret}}.
@item
Importing and exporting examples include versions integrated with
Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some
@uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end
of the HOWTO.
@item
Instructions for dealing with semi-walled garden implementations
like ProtonMail are also included. This is intended to make things
a little easier when communicating with users of ProtonMail's
services and should not be construed as an endorsement of said
service. The GnuPG Project neither favours, nor disfavours
ProtonMail and the majority of this deals with interacting with the
ProtonMail keyserver.
@item
Semi-formalised the location where @uref{gpgme-python-howto#draft-editions, draft versions} of this HOWTO may
periodically be accessible. This is both for the reference of
others and testing the publishing of the document itself. Renamed
this file at around the same time.
@item
The Texinfo documentation build configuration has been replicated
from the parent project in order to make to maintain consistency
with that project (and actually ship with each release).
@item
a reStructuredText (@samp{.rst}) version is also generated for Python
developers more used
to and comfortable with that format as it is
the standard Python documentation format and Python developers may
wish to use it with Sphinx. Please note that there has been no
testing of the reStructuredText version with Sphinx at all. The
reST file was generated by the simple expedient of using @uref{https://pandoc.org/, Pandoc}.
@item
Added a new section for @uref{gpgme-python-howto#advanced-use, advanced or experimental use}.
@item
Began the advanced use cases with @uref{gpgme-python-howto#cython, a section} on using the module with
@uref{https://cython.org/, Cython}.
@item
Added a number of new scripts to the @samp{example/howto/} directory;
some of which may be in advance of their planned sections of the
HOWTO (and some are just there because it seemed like a good idea at
the time).
@item

Cleaned up a lot of things under the hood.
@end itemize

@bye
Additional license notices for GPGME. -*- org -*-

This file contains the copying permission notices for various files in
the GPGME distribution which are not covered by the GNU Lesser
General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included
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distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

* MIT License

For files:
- cJSON.c, cJSON.h

#+begin_quote
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#+end_quote
-*- mode: org -*-
#+TITLE: Maintenance Mode
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article

#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* Maintenance Mode from 2019
 :PROPERTIES:
 :CUSTOM_ID: maintenance-mode
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

From the beginning of 2019 the Python bindings to GPGME will enter
maintenance mode, meaning that new features will not be added and only
bug fixes and security fixes will be made.
  This also means that
documentation beyond that existing at the end of 2018 will not be
developed further except to correct errors.

Though use of these bindings appears to have been quite well received,
there has been no indication of what demand there is, if any for
either financial backing of the current Python bindings development or
support contracts with g10code GmbH citing the necessity of including
the bindings.

** Maintainer from 2019 onward
  :PROPERTIES:
  :CUSTOM_ID: maintenance-mode-bm
  :END:

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding
for that position, the amount of time I will be able to dedicate
solely to this task will be limited and reduced to volunteered time.
As with all volunteered time and effort in free software projects,
this will be subject to numerous external imperatives.

** Using the Python Bindings from 2019 and beyond

:PROPERTIES:
:CUSTOM_ID:
maintenance-mode-blade-runner
:END:

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the lower level, dynamically generated methods which match the GPGME C documentation. While the more intuitively Pythonic higher level layer already covers the vast majority of functionality people require with
key generation, signatures, certifications (key signing), encryption, decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking because they are missing from GPGME itself (e.g. revoking keys via the API) and in such cases they are usually deliberately excluded. More discussion of these issues can be found in the archives of the [[https://lists.gnupg.org/mailman/listinfo/gnupg-devel][gnupg-devel mailing list]].

Any features existing in the dynamically generated layer for which people want a specific, higher level function included to make it more Pythonic (e.g. to avoid needing to learn or memorise cryptographic mode values or GnuPG status code numbers), would be a feature request and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a feature would not be guaranteed and provided on a purely volunteer basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request already know how to [[https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset][expedite it]] (use the message field to state what
feature is being requested).

** Documentation formats
 :PROPERTIES:
 :CUSTOM_ID: docs
 :END:

The documentation has been written in Org mode for GNU Emacs, with
both Texinfo and reStructuredText formats generated from that. The
Texinfo files are intended for use with the rest of the GnuPG
documentation; while the reStructuredText files are intended for use
with Docutils and Sphinx, as with other Python projects.

*** Cautionary Notes regarding Sphinx and EPUB
  :PROPERTIES:
  :CUSTOM_ID: sphinx-made-epubs-suck
  :END:

Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by [[https://readthedocs.org/][Read the Docs]] and
the [[https://docs.python.org/][Python documentation]], there are a number of output formats it does
not
 handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the [[http://idpf.org/epub][EPUB 3]] format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here [[https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-
python/rst/epub/GPGMEPythonBindings.epub][produced a file]] with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
[[https://dev.gnupg.org/maniphest/task/edit/form/4/][feature
request]] case marked for [[https://dev.gnupg.org/p/BenM/][my]] attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org
 mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.
Just GNU it!
(11:private-key(3:dsa(1:p129:eC_L&$2,6tx.gh1VirlqI9
,^g3.$DveUvX1'oIj)(1:q21: #UFK2z(tuVG)(1:g128:zu^Rab;qeQQA B?/6/aspfE/
gx!Mr0YY*oMrJc2xWG:.r6)(1:y128:Uf]j^@oEn4j#QrRq" RcEa E/}4C[3A
5+~~.#!+

)W&5d)ij)(1:x21:`)))
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

* m4/pth.m4: Removed.
* configure.ac: Remove check for pth and automake conditional
HAVE_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

Release 1.3.1

* configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am (SUBDIRS): Remove complus.

* configure.ac (AC_CONFIG_FILES): Remove complus/Makefile.
(BUILD_COMPLUS): Remove AM_CONDITIONAL.
* complus/: Remove very old and stale component.

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32):
Support option --build-w64.
* configure.ac (HAVE_W64_SYSTEM): Define.
(INSERT__TYPEDEFS_FOR_GPGME_H): New.
(GPGME_CONFIG_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* configure.ac (NEED_LIBASSUAN_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys/types.h and
sys.stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

* configure.ac (AH_BOTTOM): Define GPG_ERR_ENABLE_ERRNO_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Update the thing.

* configure.ac: Check for locale.h.

2010-05-06
Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Detect Windows CE.
(HAVE_W32CE_SYSTEM): New symbol and automake conditional.
* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

* configure.ac (emacs_local_vars_begin)
(emacs_local_vars_read_only, emacs_local_vars_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Do not use echo -n. Test for __thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.
* configure.ac: Invoke AC_CONFIG_MACRO_DIR.
(AC_LIBTOOL_WIN32_DLL,
AC_LIBTOOL_RC): Replace by ...
(LT_PREREQ, LT_INIT, LT_LANG): ... these.
* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:
Updated to libtool 2.2.6a.
* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4,
m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Activate UIServer if FD passing is enabled and
Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for argp.h and error_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION_DEFAULT): Bump to 1.4.0 as 1.3.0
was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Replace internal libassuan by external libassuan.
 * m4/libassuan.m4:
 New file.
 * Makefile.am (assuan): Remove variable.
 (SUBDIRS): Remove ${assuan}.
 * assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Add AC_TYPE_UINTPTR_T.

 * assuan/assuan.h [_ASSUAN_IN_GPGME_BUILD_ASSUAN]: Declare
 _gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

 Released GPGME 1.2.0.

 * configure.ac (my_version): Set to 1.2.0.
 (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump.
 (LIBGPGME_LT_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Add infrastructure for compile time check of
 _FILE_OFFSET_BITS.

2009-04-19 Moritz <moritz@gnu.org>

 * Makefile.am (DISTCHECK_CONFIGURE_FLAGS): Specify --with-gpg.

2009-03-06 Marcus Brinkmann <marcus@g10code.de>

 * assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

 * configure.ac (AC_CONFIG_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

 Release GPGME
 1.1.8.

 * configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

 * configure.ac: Replace gpgme paths with src.
 * gpgme: Move to ...
 * src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

 * configure.ac (AC_CONFIG_FILES): Add gpgme.h.
(GNUPG_FIX_HDR_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

 Release GPGME 1.1.7.

 * configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

 * configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

 * configure.ac (_XOPEN_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

 * config.guess, config.sub: Update to 2007-11-19. Also update
missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

 * configure.ac (AC_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Bump required version of automake up to 1.10.
 * autogen.sh: Fix
aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

 Release GPGME 1.1.6.

 * configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* assuan-pipe-connect.c (pipe_connect_gpgme): Do not close process handle here. Use this function also on Unix systems.

* assuan-pipe-connect.c (pipe_connect_gpgme): Fix last change.

* assuan-pipe-connect.c (pipe_connect_gpgme): New function, use it if _ASSUAN_IN_GPGME_BUILD_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>

* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for C++, Qt and support --enable-w32-qt.
* m4/pkg.m4: New file.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (--enable-w32-glib): Use --enableval, not --withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-socket.c (_assuan_close): Always use close().
* assuan/assuan.h (_gpgme_io_close): New prototype.
(close): New
macro, define as _gpgme_io_close.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-io.c (_assuan_simple_read, _assuan_simple_write): Always use read/write (which means _gpgme_io_read and _gpgme_io_write).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGSM_DEFAULT) [*-mingw32*]: Initialize it.
(HAVE_ASSUAN_H): Set to 1 if we have it.
(funopen): Use AC_REPLACE_FUNCS.
(USE_DESCRIPTOR_PASSING): Define to 1 if we have it. Do not

define it at all if we don't.
(NETLIBS) [have_w32_system]: Add -lws2_32.
(DIRSEP_C, DIRSEP_S, EXPSEP_C, EXPSEP_S, PATHSEP_S)
[HAVE_DOSISH_SYSTEM]: Remove definitions.

* assuan/assuan.h (_assuan_funopen): Define to _gpgme_funopen.
* assuan/funopen.c: Move to ../gpgme/funopen.c.
* assuan/Makefile.am (libassuan_la_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

*
assuan/Makefile.am (INCLUDES): Include $(top_srcdir)/gpgme.
* assuan/assuan.h: Include <ath.h> instead of trying to duplicate
the definitions.

* assuan/: Update files to 2007-07-04 version of assuan.

* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

* configure.ac: Changed gpg and gpgsm version checks to work with
arbitrary names of the gpg binary. New option --disable-gpg-test
and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

* configure.ac (NEED_GPG_VERSION, NEED_GPGSM_VERSION): Must define
after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

* configure.ac: Require gpg-error 1.4 due to the use of

gpg_error_from_syserror.
(HAVE_ASSUAN_H):
New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add options --with-gpg-version and
--with-gpgsm-version to allow overriding the minimum version
requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Use descriptor passing only if --enable-fd-passing
is provided.

* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Turn stpcpy into a replacement function.
Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* lang, lang/cl: New subdirectories.
*
lang/Makefile.am, lang/README: New files.
* configure.ac (AC_CONFIG_FILES): Add lang/Makefile,
lang/cl/Makefile and lang/cl/gpgme.asd.
* Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.1.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for
release.
(LIBGPGME_LT_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

* configure.ac: Test for inline feature.
(AH_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

* configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

* configure.ac (BUILD_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for --enable-w32-glib (disabled by
default). Invoke AM_PATH_GLIB_2_0.

2005-11-16 Werner Koch <wk@g10code.com>

* configure.ac
(CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

* configure.ac: Create BUILD_FILEVERSION from SVN Revision.

* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove
files.

* configure.ac: Instead checking for windres and dlltool, invoke
AC_LIBTOOL_WIN32_DLL and AC_LIBTOOL_RC.
* src/Makefile.am [HAVE_W32_SYSTEM]: Use libtool, which simplifies
the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for
release.
(LIBGPGME_LT_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_PTH): Don't add $PTH_CFLAGS to $CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

* configure.ac (SEPCONSTANTS): New to define DIRSEP_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

*
configure.ac [W32]: Create values for versioninfo.rc and list
substuture versioninfo.rc.
* configure.ac: Define ENABLE_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AH_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): Assume no when cross-compiling.

* Makefile.am (EXTRA_DIST): Include autogen.sh

* autogen.sh: Added the usual code to build for W32 (--build-w32).

* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.
(HAVE_DRIVE_LETTERS): Removed.
(HAVE_W32_SYSTEM): Added.
(AC_GNU_SOURCE): New to replace the identical AH_VERBATIM.
(AH_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

* Makefile.am (AUTOMAKE_OPTIONS): Build bzip 2 version.

(ACLOCAL_AMFLAGS): Add -I m4.
* configure.ac: Require automake 1.9.3 and autoconf 2.59.
* acinclude.m4:
Changed quoting for automake 1.9.
* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace ttyname_r if it doesn't exist (and warn in
that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* README: Refer to COPYING.LESSER and "each file" instead of
COPYING.
* COPYING.LESSER: New file.
* gpgme.spec.in (%doc): Add COPYING.LESSER.
* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL
2.1 or later.
* TODO: Add copyright notice.
* README.CVS: Likewise.

* configure.ac (GPGSM_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 2.
(AC_INIT): Set version to 1.0.1.

* configure.ac: Set HAVE_GPGSM to true only if $GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
(AC_INIT): Set version to 1.0.0.

* Makefile.am
(EXTRA_DIST): Remove README-alpha.
* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable AC_CONFIG_MACRO_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Improve diagnostics with version check.

* configure.ac: Print diagnostics about found thread libraries at
the end. Check for the versions of GPG and GPGSM and print the
found versions at the end.
(HAVE_GPGSM): Do not require GPGSM to exist and be readable.
(AC_CONFIG_MACRO_DIR): Invoke with argument m4.

* acinclude.m4: Add copyright notice.
(jm_GLIBC21, AM_PATH_GPG_ERROR, _AC_PTH_ERROR, _AC_PTH_VERBOSE,
AC_CHECK_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

* configure.ac (AC_INIT): Set version number to 0.9.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by one.
(LIBGPGME_LT_REVISION): Reset to zero.

2004-05-21
Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGME_CONFIG_API_VERSION): New variable,
substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

* autogen.sh: Added ACLOCAL_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>

Released 0.4.6.

* config.guess, config.sub, ltmain.sh: Updated to those from
libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

* configure.ac (NEED_GPGSM_VERSION): Bump up to 1.9.6.

* Makefile.am (EXTRA_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

* configure.ac: Make the check for funopen fail with just a
warning.

2004-02-11 Werner Koch <wk@gnupg.org>

* autogen.sh (check_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>

* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte
<mo@g10code.com>

* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add invocation of AC_SYS_LARGEFILE, AC_TYPE_OFF_T
and AC_FUNC_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

* configure.ac: Bumbed LT_Revision; now at C12/A1/R1.
(NEED_GPGSM_VERSION): Set to 1.9.3.
(min_automake_version): Added.
* README.CVS: New.
* Makefile.am (EXTRA_DIST): Added README.CVS.
* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

* acinclude.m4: Add AM_PATH_GPG_ERROR.
* configure.ac: Check for timegm. Made warning messages more
prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by 1.
(LIBGPGME_LT_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Require libgpg-error 0.5.

* acinclude.m4: Remove libtool cruft, add jm_GLIBC21.
* configure.ac: Add check for
getenv_r, and call jm_GLIBC21.
Define HAVE_THREAD_SAFE_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Remove GPGME_CONFIG_LIBS and GPGME_CONFIG_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Move invocation of AC_CANONICAL_HOST up to
suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

* gpgme.spec.in: %{_infodir}/dir is not packaged,
remove to prevent checking failure.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: If building Assuan, check for funopen and
fopencookie, and make isascii, putc_unlocked and memrchr
replacement functions.
(AM_PATH_GPG_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac:
Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Bump up to 11.

* configure.ac: Use AM_PATH_GPG_ERROR.

* configure.ac: Check for libgpg-error. Define
GPG_ERR_SOURCE_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme* type names with the new gpgme_*
type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile,
bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.
* configure.ac: Remove automake conditional BUILD_BONOBO
(AC_CONFIG_FILES): Remove bonobo/Makefile.
*
Makefile.am (bonobo): Remove variable.
(SUBDIRS): Remove ${bonobo}.

* configure.ac: Remove all uses of GNUPG_CHECK_TYPEDEF, for byte,
ushort, ulong, u16 and u32.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: New conditional HAVE_LD_VERSION_SCRIPT.

Call AC_CANONICAL_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (automake_vers): Require 1.7 (really 1.7.1) for the
conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Increase by one.
(LIBGPGME_LT_AGE, LIBGPGME_LT_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

* NEWS: Add note about moving "gpgmeplug" to the "cryptplug"
package.
* README: Remove instructions related to "gpgmeplug".
* configure.ac:
Remove enable option "gpgmeplug" and automake
conditional BUILD_GPGMEPLUG, as well as the status info about it.
(GPGMEPLUG): Remove variable.
* Makefile.am (gpgmeplug): Remove variable.
(SUBDIRS): Remove ${gpgmeplug}.
* cryptplug.h, gpgme-openpgp.c, gpgmeplug.dox, gpgme-smime.c,
Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version up to 0.4.0.
(NEED_GPG_VERSION): Bump up to 1.2.0.
(NEED_GPGSM_VERSION): Bump up to 0.9.0.
* README: Update version numbers.
* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

* configure.ac (AC_CHECK_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann
<marcus@g10code.de>

* autogen.sh (autoconf_vers): Bump up to 2.53 to get the @&t@
quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Create and substitute LTLIBOBJS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

* NEWS: Update for 0.3.9 release.
* configure.ac: Bump up LIBGPGME_LT_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.spec.in: Changed user name in Wojciech Polak's email
address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): New.
* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

* configure.ac (GPGME_CONFIG_CFLAGS): Renamed from GPGME_CFLAGS
and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump version number to 0.3.10.

* NEWS: Add template for development version.

2002-08-21

Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

* NEWS: Update for 0.3.9 release.
* Makefile.am (EXTRA_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog,
jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h,
jnlib/logging.c, jnlib/logging.h,jnlib/Makefile.am,
jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c,
jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h,
jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Remove jnlib.
* configure.ac: Don't check for unsigned short or unsigned long.
Don't check for memicmp, strlwr, strtoul, memmove, stricmp.
Make stpcpy a replaced function.
Don't define HAVE_JNLIB_LOGGING.
Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

* configure.ac: Bumbed version number to 0.3.9; add a comment on
when to change it.

* gpgme.spec.in:
New. Contributed by Wojciech Polak.
* Makefile.am (dist-hook): New.

* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

* configure.ac: Bumbed LT version to 9/3/0.
(NEED_GPGSM_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

* configure.ac (AC_INIT): Set version to 0.3.7.

(LIBGPGME_LT_REVISION): Add one.

* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* acinclude.m4: Fix Pth check so that it doesn't error out if pth
is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add checks for Pth and pthreads.
* acinclude.m4: Add slightly hacked check for pth (seems to be an
autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

* configure.ac (NEED_GPGSM_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05
Marcus Brinkmann <marcus@g10code.de>

* acconfig.h: File removed.
* configure.ac (NEED_GPG_VERSION): Add description.
(NEED_GPGSM_VERSION): Likewise.
(HAVE_DOSISH_SYSTEM): Likewise.
(HAVE_DRIVE_LETTERS): Likewise.
(GPG_PATH): Likewise.
(GPGSM_PATH): Likewise.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_DOSISH_SYSTEM.

2002-03-04 Werner Koch <wk@gnupg.org>

* configure.ac: Bumbed version to 0.3.4-cvs to continue development.

Released 0.3.4.

* configure.ac: Bumbed LT version numbers to (7,1,0), requires
gpgsm 0.3.1.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Change version number to snapshot CVS
version.

2002-02-13 Werner Koch <wk@gnupg.org>

* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT):
Bump version to 0.3.3.
* jnlib/Makefile.am: Rever to older version that includes xmalloc
but not dotlock and some other files. Reported by Stphane
Corthsy.

2002-02-10 Marcus Brinkmann <marcus@g10code.de>

* Released 0.3.2.

* configure.ac (AC_INIT): Bump version to 0.3.2.
* jnlib/libjnlibconfig.h: Revert to older version that doesn't
expect libgcrypt. Reported by Jose Carlos Garcia Sogo
<jsogo@debian.org>.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* Released 0.3.1.

* configure.ac (LIBGPGME_LT_CURRENT): Bump it up to 6!
(NEED_GPGSM_VERSION): Bump it up to 0.3.0!
(AC_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_JNLIB_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

* configure.ac (VERSION,PACKAGE): Defined and subst. Used for
AM_INIT_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (libtool_vers):
Bump to 1.4.

* configure.ac (LIBGPGME_LT_CURRENT): Increment.
(LIBGPGME_LT_AGE): Reset.
Improve comment.
Fix wrong comment character.

2001-12-18 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Fixed for new automake.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPG): Substitute this variable.
(GPGSM): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Add tests/gpg/Makefile and
tests/gpgsm/Makefile.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if
[BUILD_GPGMEPLUG].
* configure.ac (AC_CONFIG_FILES): Add gpgmeplug/Makefile.
Support --enable-gpgmeplug.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Tighten version dependencies.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Support building the assuan library
(currently if GPGSM_PATH is set)..
* configure.ac: Support building
the assuan library.
* assuan: New directory, populated with the Assuan library
(copied from the newpg repository).

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPGSM_VERSION): New variable. Treat it
similarly to NEED_GPG_VERSION.
* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* configure.in: Renamed to ...
* configure.ac: ... this. Update to autoconf 2.52. Lots of small
changes in the transition. Support --with-gpg=PATH and
--with-gpgsm=PATH options. Check if test suites can be run.
* acconfig.h: Add GPGSM_PATH.
* Makefile.am: New variable `tests', set to `tests' if
RUN_GPG_TESTS.
(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Invoke automake with `-a' (add missing files).
Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

* configure.in (NEED_GPG_VERSION): Set to 1.0.6. Incremented LT
current
and age.

* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

* configure.in (NEED_GPG_VERSION): Set to 1.0.4g

2001-04-02 Werner Koch <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28 Werner Koch <wk@gnupg.org>

Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

* autogen.sh: Added option --build-w32.

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2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.
(clean-local): New rule.
* gpg/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am: Unset GPG_AGENT_INFO when setting up local
configuration.
(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

* gpg/t-import.c (check_result): Complete secret key pair counting
and disable status check, as GPG 2.1 currently emits two IMPORT_OK
lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am (DISTCLEANFILES):
Add S.gpg-agent.
(mkdemodirs, ./Alpha/Secret.gpg): Remove targets.
(GNUPGHOME): Export as absolute build directory (for gpg-agent).
(./pubring.gpg): Remove --homedir option, import secdemo.asc.
(clean-local): Rewrite.
* gpg/secdemo.asc: New file.

* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to
"abc" (now needed as GnuPG 2.1 asks for secret key passphrase on
import).
* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.
(main): Disable check for can_encrypt, as this is now in a
different subkey.
* gpg/t-encrypt-sign.c (check_result): Allow RMD160 hash
algorithm.
* gpg/t-import.c (check_result): One secret key pair now counts as
two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

* run-support.h (fail_if_err): Include program name.

* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

* run-verify.c:
New.

2009-08-06 Werner Koch <wk@g10code.com>

* run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

* run-keylist.c (main): Add options --cms and --openpgp.

* gpg/pgp-keylist.c: Rename to ...
* run-keylist.c: ... this.
* gpg/pgp-import.c: Rename to ...
* run-import.c: ... this.
* gpg/pgp-export.c: Rename to ...
* run-export.c: ... this.
* run-support.h: New. Copied from gpg/t-support.h.
* gpg/Makefile.am (noinst_PROGRAMS): Remove them.
* Makefile.am (noinst_PROGRAMS): Add them.
(noinst_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-support.h (passphrase_cb): Implement write() according to

the book to silence compiler warning.
* gpgsm/t-support.h (passphrase_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

* gpg/pgp-import.c: New.
* gpg/t-support.h (print_import_result, nonnull): Factored out
from other tools.

* gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

* gpg/Makefile.am
(./pubring.gpg): Ignore errors in case of
already imported keys. Add --no-permission-warning and remove
obsolete --allow-secret-key-import.
* gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

* gpg/t-edit.c (edit_fnc): Use gpgme_io_write.

2009-04-19 Moritz <moritz@gnu.org>

* gpg/Makefile.am (EXTRA_DIST): Replaced mkdemodirs with mkdemodirs.in.
(mkdemodirs): New target.
(clean-local): Added command for removing mkdemodirs script.
(./Alpha/Secret.gpg): Added dependency on mkdemodirs.

* gpg/mkdemodirs: Renamed to ...
* gpg/mkdemodirs.in: ... here.
* gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of
hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>

* opassuan/t-command.c: Adjust for changed new op_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Check that new fields is_cardkey and
card_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>

* opassuan/: New.
* opassuan/Makefile.am:
New.
* opassuan/t-command.c: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (INCLUDES): Fix path to include file.
 * gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

 * gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

 * gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.
 * gpg/Makefile.am (INCLUDES, LDADD, t_thread1_LDADD): Likewise.
 * Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

 * gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

 * gpg/t-gpgconf.c (dump_arg): Add new types. Print strings in
quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

 * gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.

 * gpg/Makefile.am (./gpg-agent.conf): Correct pinentry path.

 * gpg/pinentry:
New file.
 * gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf
(./gpg-agent.conf): New target.
(EXTRA_DIST): Add pinentry.

 * gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

 * gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

 * Makefile.am (TESTS_ENVIRONMENT): Use absolute path for

GNUPGHOME.
* gpg/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
GNUPGHOME.
* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
GNUPGHOME.
* gpg/Makefile.am (TESTS): Add t-gpgconf.
t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (show_auditlog): Check for GPG_ERR_ASS_UNKNOWN_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

* gpgsm/t-verify.c (check_result): Don't exit on error but set a flag.
(main): Cosnult flag for return value.
(show_auditlog): New.
(main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c
(check_engine_info): Fix debug output.
* gpg/Makefile.am (tests_unix): New variable.
(TESTS): Use it.
* gpg/t-support.h (passphrase_cb) [HAVE_W32_SYSTEM]: Use WriteFile instead of write.
* gpg/t-wait.c [HAVE_W32_SYSTEM]: Define sleep as _sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgsm/t-support.h (init_gpgme) [W32]: Do not init the locales as
the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

* gpg/t-verify.c (double_plaintext_sig): New.
(main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of
GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Changed for that secondary keys now have
a fingerprint.
*
gpg/t-keylist-sig.c (main): Ditto.
* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to
Whisky.
* gpg/t-keylist.c: Reordered list to match new demo keyring. Add
arg for number of subkeys and for extra checking function.
(main): Enhanced a few error outputs. Changed subkey
counting. Call extra checking function.
(check_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Allow for an email address as a second
uid.

* gpg/t-sig-notation.c: Change critical notation to something
GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Remove gpg.conf.
(DISTCLEANFILES): Add gpg.conf.
(all-local): Add gpg.conf.
(./gpg.conf): New target.
* gpg/gpg.conf: Remove file.

* gpg/Makefile.am (EXTRA_DIST): Add gpg.conf.

* gpg/Makefile.am (TESTS): Add t-sig-notation.
* gpg/t-sig-notation.c
(check_result): New file.
* gpg/t-verify.c (check_result): Also check the length of the
notation data.
* gpg/gpg.conf: New file.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-filename.
* gpg/t-filename.c: New file.

2005-09-23 Werner Koch <wk@g10code.com>

* gpg/t-support.h (init_gpgme) [W32]: Don't use LC_MESSAGES.

* gpg/t-encrypt-large.c: New test.
* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-wait.
* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* gpg/mkdemodirs: Add copyright notice.

* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c,
gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c,
gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c,
gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c,
gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c,
gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c,
gpg/t-eventloop.c,
gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c,
gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c,
gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c,
gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c,
t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and
KEY_LENGTH.
(main): Use them.
* gpgsm/t-import.c (check_result): New argument total_stat.
(main): Pass this argument. Reduce number of total considered
keys to 1 for the second test.

2004-04-05 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgsm/t-import.c (check_result): gpgsm does now
return info in
the result->imports; adjust for that.

* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Reset the GPG_AGENT_INFO.

Include config.h at the top of each C source. This is required
due to LFS support.

* gpg/t-keylist-sig.c (main): s/class/sig_class/.
* gpg/t-signers.c (check_result): Ditto.
* gpg/t-sign.c (check_result): Ditto.
* gpg/t-encrypt-sign.c (check_result): Ditto.
* gpgsm/t-sign.c (check_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

* gpg/t-keylist-sig.c (main): Temporary disabled one test due top
gpg 1.3.4 problems.
* gpg/t-import.c (check_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

* gpg/t-support.h (DIM): Added.

* gpg/t-verify.c (check_result): Rewrote test for notations
because the order of notaions is not guaranteed.

* gpgsm/t-support.h (fail_if_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: Include <sys/types.h> for old systems.

* gpgsm/Makefile.am
(DISTCLEANFILES): Add random_seed.

* gpg/t-thread1.c (thread_one): Do not call initialize_gpgme.
Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-thread1.c (main): Call init_gpgme here.
(initialize_gpgme): Function removed.

* gpg/t-thread1.c: New file.
* gpg/Makefile.am (TESTS): Add t-thread1.c.
(t_thread1_LDADD): New variable.
(LDADD): Remove GPG Error lib.
* gpgsm/Makefile.am (LDADD): Likewise.

* gpg/t-import.c (main): Likewise.
* gpg/t-keylist-sig.c (main): Likewise.
* gpg/t-keylist.c (main): Likewise.
* gpg/t-sign.c (main): Likewise.
* gpg/t-signers.c (main): Likewise.
* gpg/t-trustlist.c (main): Likewise.
* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.
(init_gpgme): New function.
* gpg/t-support.h: Likewise.
* gpgsm/t-verify.c (main): Call init_gpgme.
* gpgsm/t-decrypt.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-genkey.c (main): Likewise.
* gpgsm/t-import.c (main):
Likewise.
* gpgsm/t-keylist.c (main): Likewise.
* gpgsm/t-sign.c (main): Likewise.
* gpg/t-verify.c (main): Call init_gpgme.
* gpg/t-decrypt-verify.c (main): Likewise.
* gpg/t-decrypt.c (main): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt-sym.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpg/t-genkey.c (main): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-sign.c (check_result): Change output format for signature
class to unsigned int.
* gpg/t-signers.c (check_result): Likewise.
* gpg/t-encrypt-sign.c (check_result): Likewise.
* gpgsm/t-sign.c (check_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (check_result): Change type of SUMMARY to
unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.
* gpg/t-keylist-sig.c (keys): Change type of member CLASS
to
unsigned int.
* t-data.c (read_cb): Change type of AMOUNT to unsigned int.
* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.
* gpg/Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.
* gpgsm/Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* gpg/Makefile.am (noinst_HEADERS): New variable.
* gpg/t-support.h: New file.
* gpgsm/Makefile.am (noinst_HEADERS): New variable.
* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus
Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Rewrite recipient management.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after
t-import.
* gpg/t-edit.c (edit_fnc): Fix primary UID for keylisting tests.
* gpg/t-keylist.c: Change order of user IDs.
* gpg/t-keylist-sig.c: Likewise.
* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Remove TEST_OUT_CB.
(main): Likewise.
* gpg/t-trustlist.c (main): Access ITEM directly.

* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c,
t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.
(passphrase_cb): Rewritten.
* t-edit.c (edit_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

*
gpg/t-keylist-sig.c (main): Remove timestamp check.

* gpgsm/t-keylist.c: Add check for timestamp.

* gpg/Makefile.am (TESTS): Add t-keylist-sig.
* gpg/t-keylist-sig.c: New file.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Do not call print_op_info.
(print_op_info): Function removed.

* gpg/t-keylist.c: Rewritten.
* gpgsm/t-keylist.c (main): Rewritten.
* gpg/t-edit.c (main): Do not use gpgme_key_get_as_xml. Use
gpgme_key_unref instead gpgme_key_release.
* gpg/t-signers.c (main): Use gpgme_key_unref instead
gpgme_key_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-trustlist.c: Rewritten.

* gpg/t-verify.c (main): Rewritten.
* gpg/t-decrypt-verify.c: Rewritten.
* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-decrypt.c (main): Rewritten.

 * gpg/t-decrypt.c: Rewritten.

 * gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

 *
 gpg/t-encrypt-sign.c (check_result): Rewritten.

 * gpg/t-sign.c: Rewritten.
 * gpgsm/t-sign.c: Rewritten.
 * gpg/t-encrypt.c: Check for invalid recipients.
 * gpgsm/t-encrypt.c: Likewise.

 * gpg/t-import.c (check_result): Really use FPR.
 * gpgsm/t-import.c (check_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-import.c: Rewritten.

 * gpgsm/t-genkey.c: Rewritten.
 * gpgsm/Makefile.am (noinst_PROGRAMS): Add t-genkey.
 * gpg/t-genkey.c: Include <stdlib.h>.
 (main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-decrypt.c (passphrase_cb): Fix to new prototype.
 * gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
 * gpg/t-edit.c (passphrase_cb): Likewise.
 * gpg/t-encrypt-sign.c (passphrase_cb): Likewise.
 * gpg/t-encrypt-sym.c (passphrase_cb): Likewise.
 * gpg/t-sign.c (passphrase_cb): Likewise.
 *
 gpg/t-signers.c (passphrase_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c: Use file_name instead path throughout.

* Makefile.am (TESTS): Add t-engine-info.
* t-engine-info.c: New file.
* gpg/t-encrypt.c (main): Don't print engine info.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Adjust caller of gpgme_op_verify.
* gpg/t-verify.c (main): Likewise.
* gpg/t-decrypt-verify.c (main): Likewise for
gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (./gpgsm.conf): Add a faked system time to
avoid certification's expiry.
* gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c (main): Add missing argument to gpgme_op_genkey
invocation.

2002-10-09 Marcus Brinkmann
<marcus@g10code.de>

* gpg/t-decrypt.c (print_data): Update to new gpgme_data_read
interface, and use gpgme_engine_check_version instead
gpgme_check_version.
* gpg/t-decrypt-verify.c (print_data): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt.c (print_data): Likewise.
* gpg/t-encrypt-sign.c (print_data): Likewise.
* gpg/t-encrypt-sym.c (print_data): Likewise.
* gpg/t-eventloop.c (print_data): Likewise.
* gpg/t-export.c (print_data): Likewise.
* gpg/t-sign.c (print_data): Likewise.
* gpg/t-signers.c (print_data): Likewise.
* gpgsm/t-decrypt.c (print_data): Likewise.
* gpgsm/t-encrypt.c (print_data): Likewise.
* gpgsm/t-export.c (print_data): Likewise.
* gpgsm/t-sign.c (print_data): Likewise.
* gpg/t-verify.c (main): Likewise for gpgme_op_verify.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.

* t-data.c (read_once_test): Likewise.
(write_test): Update for new behaviour of data objects.
(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

*
gpgsm/t-keylist.c (doit): Add arg SECRET.
(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist.c (main): Test PATTERN for NULL before printing.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: Also add a test for the expire command (testing
the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: New file.
* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Change type of I to size_t and
rename to LEN.
* gpg/t-verify.c (main): Likewise. Submitted by Stphane
Corthsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: New file.
* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>

*
gpgsm/t-import.c (print_op_info): New.
(main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-export.
gpgsm/t-export.c: New file.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgsm/t-sign.c (main): Also test a normal signature.

* gpg/Makefile (TESTS_ENVIRONMENT): Set GPG_AGENT_INFO empty.
* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
* gpg/t-decrypt-verify.c (main): Changed the GPG_AGENT_INFO check to
match the one in ../../gpgme/rungpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgsm/t-verify.c (print_sig_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>

* gpgsm/t-encrypt.c (main): Add a simple option parser and allow
to specify an encryption
key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
(./secring.gpg): Remove target, and move all rules for this target
to ...
(./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7
does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (validity_string): New.
(print_sig_stat): Print expire time and validity.
(status_string): Add new exipred stati.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpg/t-verify.c (validity_string): New.
(print_sig_stat): Print expire time and validity.
(status_string): Add new exipred stati.

2002-04-05 Marcus Brinkmann <marcus@g10code,de>

* gpgsm/Makefile.am (./trustlist.txt): Put more into this file to
prevent use of gpg-agent.
(./gpg-agent.conf): Remove target.
(all-local): Remove ./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c
(main): Use gpgme_engine_check_version instead
gpgme_check_engine.
* gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c: New file.
* gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Remove random_seed, which is now
in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (main): Add a few more sanity checks, and a check
for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sign.c: New file.
* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (private-keys-v1.d): Don't
fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): New target.
(distclean-local): Rename to
...
(clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (./private-keys-v1.d/$(key_id).key): Fix rule.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-genkey.c: New file (not added to Makefile.am because of
gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Update value.
(all-local): Add .key to keyid filename.
(./private-keys-v1.d/$(key_id)): Renamed to ...
(./private-keys-v1.d/$(key_id).key): ... this.
(all-local): Add ./gpgsm.conf, ./trustlist.txt.
(./gpgsm.conf, ./trustlist.txt): New target.
* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...
* gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c (print_op_info): New function.
(main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-signers.c (passphrase_cb): Change type of r_hd to void**.
* gpg/t-sign.c (passphrase_cb):
Likewise.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-decrypt.c (passphrase_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by
Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/Makefile.am (EXTRA_DIST): Add $(key_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-keylist.c (check_two_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-sign.c: New file.
 * gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-decrypt.c: New file.
 * gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Likewise.
 * gpgsm/Makefile.am (TESTS): Add
 t-decrypt.
 (key_id): New variable.
 (all-local): New target ./private-keys-v1.d/$(key_id) added.
 (./private-keys-v1.d/$(key_id)): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-verify.c: New file.
 * gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * gpg/Makefile.am (GPG): Set to @GPG_PATH@.
 (./pubring.gpg): Use $(GPG) instead gpg.
 (./secring.gpg): Likewise.

 * gpgsm/t-import.c (main): Remove third test case.
 * gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.
 (all-local): New target.
 (./pubcerts.kbx): Likewise.
 * gpgsm/t-encrypt.c: New file.
 * gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-keylist.c: New file.

* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/cert_dfn_pca01.der: New file.
* gpgsm/cert_dfn_pca15.der: Likewise.
* gpgsm/cert_g10code_test1.der: Likewise.
* gpgsm/t-import.c: Likewise.
*
gpgsm/Makefile.am (EXTRADIST): Add new files.
(TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/: New directory.
* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c,
t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c,
t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs.
cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc,
secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and
intl/.
(LDD): Correct relative path to gpgme library.
(TESTS): Remove t-version and t-data.
* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c,
gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c,
gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c,
t-version.c, t-data.c): Include gpgme.h, not "../gpgme/gpgme.h".

* Makefile.am: New file.
* gpgsm/: New directory.
* gpgsm/Makefile.am: New file.

2001-11-16 Marcus
Brinkmann <marcus@g10code.de>

* Makefile.am (TESTS): Add t-decrypt-verify.
* t-decrypt-verify.c: New file.
* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Include stddef.h.
(read_once_test): Change type of READ to size_t.
(read_test): Likewise.
(write_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

 * t-signers.c: New file.
 * Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (TEST_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (TEST_ENVIRONMENT): Set environment to $(srcdir),
 not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

 * t-data.c (write_test): New function.
 (main): Invoke write_test for all rounds except TEST_OUT_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (INCLUDES): Remove spurious duplicate to silence
 automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

 *
 t-version.c: New file.
 * t-data.c: Likewise.
 * t-data-1.txt: Likewise.
 * t-data-2.txt: Likewise.
 * Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

 * t-keylist.c (check_two_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

 * t-encrypt.c (print_op_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

 * t-sign.c (print_op_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

 * t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

 * t-verify.c (print_sig_stat): Repaled ulong by unsigned long
 because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

 * tests/t-verify.c (print_sig_stat): Print info about the keys.

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-*- mode: org -*-
#+TITLE: What's New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What's New
 :PROPERTIES:
 :CUSTOM_ID: new-stuff
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

Last time the most obviously new thing was adding the /What's New/
section to the HOWTO. Now it's moving it out of the HOWTO.

** New in GPGME 1130
  :PROPERTIES:
   :CUSTOM_ID: new-stuff-1-13-0
  :END:

Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [[file:gpgme-python-howto.org][HOWTO]] document and
 into its own file so as to more readily include other documents
 beyond that HOWTO.
- Moving the preceding, archival, segments into [[file:what-was-new.org][another file]].
- Added =gpg.version.versionintlist= to make it easier for Python
 developers to check for a specific version number, even with beta
 versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows
 users.
- Bindings enter [[file:maintenance-mode][maintenance mode]] from January, 2019.
- Added documentation on maintenance mode and what changes can be made
 to the code when in that status. Essentially that boils down to bug
 fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the =hkp4py=
 module to search the SKS servers for a key, has been
 tightened up to
 search for both hexadecimal key IDs and user ID strings with reduced
 chance of unnecessary repitition. There may still be some
 repetition if a key includes a user ID matching the hexadecimal
 value of a key ID.
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010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
 certify@pca.dfn.de0
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011230180000Z010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1+0)U"DFN Server Certification Authority1!0 *H
 certify@pca.dfn.de0"0
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EYBmu tt[-%,R+n0j0U00U0U{upz*D\
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pca.crl0 `HB0) `HBhttps://mystic.pca.dfn.de/0A `HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html0 `HB
This certificate was issued by the DFN-PCA, the Top
Level Certification Authority of the German Research

Network (Deutsches Forschungsnetz, DFN).
The key owner's identity was authenticated in
accordance with the DFN World Wide Web Policy, v1.00! `HBcgi/check-rev.cgi?0
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,}h?c(MeM44=Qe/_^^JyYN/61&jPFXifP&#;/KZ
1 xOK?ps

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That's all there is to it!
1543830060
##Sketch 1 2
document()
layout('A4',1)
fp((0,0,0))
ft(1)
Fn('Helvetica-Bold')
Fs(18)
dstyle('Text')
fp((0,1,0.498))
ft(1)
lp((0,0,0))
lw(0.283465)
lc(1)
lj(0)
ld(())
la1()
la2()
dstyle('Application Box')
layer('Layer 1',1,1,0,0,(0,0,0))
lw(1)
r(0,0,0,0,688.145,44.1554)
lw(1)
r(0,0,0,0,682.363,85.0359)
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(605.383,329.758,0)
bs(605.383,230.546,0)
lw(1)
r(0,0,0,0,807.414,53.6148)
lp((0.392,0.584,0.929))

lw(4.25)
b()
bs(480.134,240.945,0)
bs(480.358,325.277,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(474.803,432.284,0)
bs(475.334,360.243,0)
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(354.331,432.284,0)
bs(352.806,361.417,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(212.598,432.284,0)
bs(212.598,361.417,0)
fp((0.999,1,0.4))
lw(0.283465)
r(70.5968,0,0,-56.6929,191.608,488.976,0.0603744,0.151107)
lw(1)
r(0,0,0,0,88.5492,390.805)
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(226.772,524.409,0)
bs(226.772,488.976,0)
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(403.937,528.718,0)
bs(403.937,488.976,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1,
1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(240.945,432.284,0)
bs(240.574,394.994,0)
bs(595.276,396.85,0)

bs(595.276,361.417,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(333.071,432.284,0)
bs(333.07,425.196,0)
bs(333.07,382.677,0)
bs(240.945,382.677,0)
bs(240.945,361.417,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.347,318.897,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica-Bold')
Fs(10)
txt('GPG',(1,0,0,0.905764,344.004,335.686))
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,446.763,354.33,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgConf',(0.552654,0,0,0.500564,481.802,340.184),1,1)
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.347,191.338,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgSM',(0.552654,0,0,0.500574,226.376,340.185),1,1)
G_()
lp((0.392,0.584,0.929))
lw(4.25)

```
b()
bs(347.244,325.984,0)
bs(347.244,325.984,0)
bs(347.244,255.118,0)
bs(304.724,255.118,0)
bs(304.724,226.771,0)
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(233.858,325.984,0)
bs(233.858,255.118,0)
bs(276.378,255.118,0)
bs(276.378,226.771,0)
fp((0,0,0))
le()
lw(1)
Fn('Palatino-Roman')
txt('2008-07-17',(0.608301,0,0,0.608301,708.661,65.8308))
lw(1)
r(0,0,0,0,750.427,153.265)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1,
 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(219.685,325.984,0)
bs(219.685,198.425,0)
bs(219.685,162.992,0)
G()
fp((1,1,1))
lw(0.283465)
r(113.386,0,0,-42.5196,35.4333,162.992,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('LDAP
 Server',(0.552654,0,0,0.552654,92.1261,148.819),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
```

```
Fs(18)
txt('(CRLs, Certificates)',(0.552654,0,0,0.552654,92.1261,134.646),1,1)
G_()
G()
fp((1,1,1))
lw(0.283465)
r(113.386,0,0,-42.5196,35.4331,99.2125,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('HTTP Server',(0.552654,0,0,0.552654,92.1259,85.0394),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('(CRLs)',(0.552654,0,0,0.552654,92.1259,70.8662),1,1)
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.866,0,0,-31.2962,191.338,158.855,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('DirMngr',(0.552654,0,0,0.552654,224.02,142.978),1,1)
G_()
lw(2)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(219.15,126.18,0)
bs(219.685,77.9528,0)
bs(155.906,77.9528,0)
lp((0.392,0.584,0.929))
lw(3)
b()
bs(233.858,127.559,0)
bs(233.858,99.2125,0)
```

bs(276.378,99.2125,0)
bs(276.378,85.0393,0)
lp((0.392,0.584,0.929))
lw(3)
b()
bs(248.031,127.559,0)
bs(248.031,113.386,0)
bs(375.59,113.386,0)
bs(375.59,85.0393,0)
G()
fp((1,0.647,0.31))
lw(0.283465)
r(99.2124,0,0,-28.3464,333.07,85.0393,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Certificate
 Cache',(0.552654,0,0,0.552654,382.606,69.8548),1,1)
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.3464,248.031,85.0393,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('CRL Cache',(0.552654,0,0,0.552654,284.147,70.6936),1,1)
G_()
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(503.149,240.945,0)
bs(503.149,283.464,0)
bs(588.189,283.465,0)
bs(588.189,325.984,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(503.149,283.464,0)
bs(503.149,283.464,0)
bs(361.417,283.464,0)
bs(361.417,325.984,0)

lw(1)
la2(([(-4.0,
3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(361.417,283.464,0)
bs(205.512,283.465,0)
bs(205.512,325.984,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(574.015,85.0393,0)
bs(574.015,141.732,0)
bs(262.204,141.732,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(602.361,85.0393,0)
bs(602.361,170.079,0)
bs(439.37,170.079,0)
bs(439.37,311.811,0)
bs(460.629,311.811,0)
bs(460.629,325.984,0)
lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(389.763,240.945,0)
bs(389.763,269.291,0)
bs(290.551,269.291,0)
bs(290.551,340.157,0)
bs(262.204,340.157,0)
lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(389.763,269.291,0)
bs(559.843,269.291,0)
bs(559.843,333.071,0)
bs(574.016,333.071,0)
lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(488.976,85.0393,0)
bs(488.976,127.559,0)
bs(389.763,127.559,0)
bs(389.763,212.598,0)
lw(2)

```
ld((1,
 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(205.512,127.559,0)
bs(205.512,113.386,0)
bs(170.079,113.386,0)
bs(170.079,141.732,0)
bs(155.906,141.732,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(622.961,356.76,0)
bs(622.961,518.503,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3459,573.199,354.33,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgAgent',(0.552654,0,0,0.500554,608.238,340.185),1,1)
G_()
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(721.712,467.717,0)
bs(721.712,297.838,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,686.278,297.637,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('SCdaemon',(0.552654,0,0,0.500564,721.316,283.492),1,1)
G_()
fp((1,0.647,0.31))
lw(0.283465)
lj(1)
```

```
r(86.162,0,0,-117.493,679.192,566.929,0.181818,0.333333)
G()
fp((0,0,0))
le()
lw(1)
Fn('Helvetica-Bold')
Fs(18)
txt('Smartcard',(0.552654,0,0,0.552654,698.127,491.036))
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-31.2962,686.279,557.593,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Card
 Reader',(0.552654,0,0,0.552654,721.318,541.975),1,1)
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(73.6353,0,0,-41.2944,587.066,565.703,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('PIN Entry',(0.57675,0,0,0.729211,623.632,545.097),1,1)
G_()
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(643.758,340.157,0)
bs(643.758,340.157,0)
bs(707.539,340.158,0)
bs(707.539,304.724,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(574.016,283.465,0)
bs(587.066,283.464,0)
bs(686.278,283.464,0)
G()
```

```
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(98.9053,325.985,0)
bs(98.9053,240.945,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,63.7795,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('WatchGnuPG',(0.552654,0,0,0.552654,98.8185,338.713),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.1194,63.7795,240.718,0.0670228,0.168178)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Log
 Socket',(0.552654,0,0,0.552654,98.8175,225.1),1,1)
G_()
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,446.457,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,485.621,226.772),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
```

r(85.0392,0,0,-28.3464,545.669,85.0394,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,584.834,70.8662),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(84.6546,0,0,-27.3609,347.245,239.959,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Help
 Files',(0.552654,0,0,0.552654,388.252,224.705),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(84.6546,0,0,-27.3609,446.457,85.0394,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Help Files',(0.552654,0,0,0.552654,487.464,69.7854),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,248.032,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')

```
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Keybox Files',(0.552654,0,0,0.552654,289.59,226.322),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.866,0,0,-28.3464,574.016,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Private Keys',(0.552654,0,0,0.552654,609.449,226.772),1,1)
G_()
G()
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(24)
txt('Scute',(0.552654,0,0,0.599958,224.978,465.775),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Times-Roman')
Fs(10)
txt('(pkcs#11)',(1,0,0,1.08559,206.081,445.011))
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(198.827,0,0,-56.6929,304.322,488.976,0.0603744,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
```

```
Fs(36)
txt('GPGME
 Library',(0.552654,0,0,0.552654,404.952,457.853),1,1)
G_()
G()
lw(1)
style('Application Box')
r(197.598,0,0,-42.5187,304.724,566.928,0.0152672,0.0677968)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
txt('GPGME aware Application',(0.98062,0,0,0.937018,334.892,540.985))
G_()
G()
lw(1)
style('Application Box')
r(127.829,0,0,-41.7496,162.992,566.159,0.0152672,0.0677968)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
txt('Legacy Application',(174.688,540.01))
G_()
G()
G()
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(749.296,162.296,0)
bs(705.89,162.296,0)
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0,
 -3.0), (-4.0, 3.0)], 1))
b()
bs(705.89,100.083,0)
bs(744.472,100.083,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(705.89,131.189,0)
bs(744.472,131.189,0)
fp((0,0,0))
le()
lw(1)
```

```
Fn('Helvetica')
Fs(14)
style('Text')
txt('execute/access',(0.31891,0,0,0.280771,726.951,87.3768),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('closely linked',(0.31891,0,0,0.280771,724.715,149.589),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Assuan protocol',(0.31891,0,0,0.280771,728.535,118.483),1,1)
G_()
lw(1)
r(56.6929,0,0,-92.126,701.575,170.079)
G_()
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(248.031,325.984,0)
bs(248.031,297.638,0)
bs(538.583,297.638,0)
bs(538.583,340.157,0)
bs(566.929,340.157,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(375.591,325.984,0)
bs(375.591,304.724,0)
bs(531.496,304.724,0)
bs(531.496,347.244,0)
bs(566.929,347.244,0)
guidelayer('Guide
 Lines',1,0,0,1,(0,0,1))
grid((0,0,7.08661,7.08661),1,(0,0,1),'Grid')
Just GNU it!
Just GNU it!
Just GNU it!
```

```
# -*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}


* GPGME Python Bindings
 :PROPERTIES:
 :CUSTOM_ID: top
 :END:


** Contents
  :PROPERTIES:
  :CUSTOM_ID: contents
  :END:


- [[file:short-history][A short history of the project]]
- [[file:what-is-new][What's New]]
 - [[file:maintenance-mode][Maintenance Mode]] (from January, 2019)
- [[file:what-was-new][What Was New]]
- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]
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         Version 2, June 1991

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```

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<signature of Ty Coon>, 1 April 1989
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Public License instead of this License.
\input texinfo   @c -*- texinfo -*-
@c %**start of header
@setfilename short-history.info
@settitle A Short History of the GPGME bindings for Python
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title A Short History of the GPGME bindings for Python
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top A Short History of the GPGME bindings for Python
@end ifnottex

@menu
* Overview::
* Relics of the past::

@detailmenu
--- The Detailed Node Listing ---

Overview

* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::

Relics of the past

* The Annoyances of Git::
* The Perils of PyPI::

The Perils of PyPI

* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::

@end detailmenu

@end menu

@node Overview
@chapter Overview

@multitable {aaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab
0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

@menu
* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::
@end menu

@node In the beginning
@section In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.@footnote{In all likelihood this would have been Python 2.2 or possibly Python 2.3.} Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

@node Keeping
the flame alive
@section Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's

whereabouts at the time of this document's creation are unknown,
but the current authors do hope he is well. We're assuming (or
hoping) that life did what life does and made continuing untenable.

@node Passing the torch
@section Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and
discovered the absence of Igor. Following a discussion on the PyME
mailing list he became the new maintainer for PyME, releasing
version 0.9.0 in May of that year. He remains the maintainer of
the original PyME release in Python 2.6 and 2.7 (available via
PyPI).

@node Coming full circle
@section Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version,
while investigating how complex a task this would be the task ended
up being completed. A subsequent discussion
 with Werner Koch led
to the decision to fold the Python 3 port back into the original
GPGME release in the languages subdirectory for non-C bindings
under the module name of @samp{pyme3}.

In 2016 this PyME module was integrated back into the GPGME project
by Justus Winter. During the course of this work Justus adjusted
the port to restore limited support for Python 2, but not as many
minor point releases as the original PyME package supports. During
the course of this integration the package was renamed to more
accurately reflect its status as a component of GPGME. The @samp{pyme3}
module was renamed to @samp{gpg} and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this
Ben returned to maintain of gpgme Python bindings and continue
building them from that point.

@node Relics of the past
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as
SWIG itself, which are worth noting here.

@menu
*
 The Annoyances of Git::
* The Perils of PyPI::
@end menu

@node The Annoyances of Git
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are
horrible way to deal with pretty much anything. In the interests
of avoiding migraines, that was skipped with addition of the PyME
code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/}
directory, along with a copy of the entire git log up to that point
as a separate file within the @samp{lang/python/docs/} directory.@footnote{The entire PyME git log and other preceding VCS logs are
located in the @samp{gpgme/lang/python/docs/old-commits.log} file.}
As the log for PyME is nearly 100KB and the log for GPGME is
approximately 1MB, this would cause considerable bloat, as well as
some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the
files. A regular repository version has been maintained should it
be possible to implement this
 better in the future.

@node The Perils of PyPI
@section The Perils of PyPI

The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never
added to PyPI while the focus remained on development and testing
during 2015 and early 2016. Later in 2016, however, when Justus
completed his major integration work and subsequently renamed the
module from @samp{pyme3} to @samp{gpg}, some prior releases were also
provided through PyPI.

Since these bindings require a matching release of the GPGME
libraries in order to function, it was determined that there was
little benefit in also providing a copy through PyPI since anyone
obtaining the GPGME source code would obtain the Python bindings
source code at the same time. Whereas there was the potential to
sew confusion amongst Python users installing the module from PyPI,
only to discover that without the relevant C files, header files or
SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI
 which might turn up in a search
for this module or a sample of its content:

@enumerate
@item

gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate

@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu

@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@subsection GPG 180 - Python bindings for GPGME GnuPG cryptography library

This is the most recent version to reach PyPI and is the version
of the official Pyhon bindings which shipped with GPGME 1.8.0. If
you have GPGME 1.8.0 installed and @emph{only} 1.8.0 installed, then it
is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME
1.8.0, the GnuPG Project recommends not using this version of the
module and instead installing the current version of GPGME along
with the
 Python bindings included with that package.

@node PyME 090 - Python support for GPGME GnuPG cryptography library
@subsection PyME 090 - Python support for GPGME GnuPG cryptography library

This is the last release of the PyME bindings maintained by Martin
Albrecht and is only compatible with Python 2, it will not work
with Python 3. This is the version of the software from which the
port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous
points of similarity, but also significant differences. It is
likely that the more recent official bindings will feel "more
pythonic."

For those using Python 2, there is essentially no harm in using
this module, but it may lack a number of more recent features
added to GPGME.

@bye
commit 2145348ec54c6027f2ea20f695de0277e2871405
Merge: 348ba88 2036f1a
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 03:04:19 2015 +1000

  Merge pull request #4 from Hasimir/master

```
  history

commit 2036f1a0a670a0561993e195c458059220b36114
Merge: dbabf0c 348ba88
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:57:44 2015 +1000

  Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34faa9c
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:52:23 2015 +1000

  Added a short history

  * A (very) brief summary of the project's history since 2002.
  * Deals with why the commit log in the GPGME repo does not include the
    history of PyME.
  * Mentions that intact git repos will be maintained, but not where they
    are (one will be on github, another will be in a user directory on
    playfair.gnupg.org).

docs/Short_History.rst | 57 ++++++++++++++++++++++++++++++++++++++++++++++++++
1 file
 changed, 57 insertions(+)

commit 348ba883424778c711c04ae9b66035ccdb36eb8c
Merge: 127d0a5 7c37a27
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:21:34 2015 +1000

  Merge pull request #3 from Hasimir/master

  Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612
Merge: f692cff 127d0a5
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:17:14 2015 +1000

  Merge branch 'master' of github:adversary-org/pyme3

commit f692cff50a89c2c61acdbd3d7dd60f5ce3cd15af
Author: Ben McGinnes <ben@adversary.org>
Date:   Wed May 6 02:09:44 2015 +1000

  TODO update
```

* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:00:44 2015 +1000

Version bump

* Bumped version number to 0.9.1 to keep it somewhat in line with the existing
PyME project, even though there will be some divergence at some point (or even re-merging, depending on how many of the Python 3 modifications can be back-ported to the Python 2 version).
* Updated the author and copyright information to reflect the two current authors (Martin and I).
* Replaced Igor's contact details with mine.
* Replaced project home page with the GnuPG one.

pyme/version.py | 16 +++++++++-------
1 file changed, 9 insertions(+), 7 deletions(-)

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:48:01 2015 +1000

README preparation.

* Changes in preparation for impending move of code to the GnuPG git server as a part of GPGME.

README.rst | 14 +++++++-------
1 file changed, 7 insertions(+), 7 deletions(-)

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:43:53 2015 +1000

TODO moved to docs

* As it says.

TODO.rst | 25 -------------------------
docs/TODO.rst | 25 +++++++++++++++++++++++++
2 files changed, 25 insertions(+), 25 deletions(-)

commit f968c777472f01f308f6e57eac1740bf5c76c205
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 16:52:13 2015 +1000

  Started another TODO file.

TODO.rst | 25 ++++++++++++++++++++++++
1 file changed, 25 insertions(+)

commit 127d0a56fa9f7ad1d4fb39d0b529b890a8d67365
Merge: db72dea 44837f6
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:59:44 2015 +1000

  Merge pull request #2 from Hasimir/master

  Minor editing.

commit 44837f6e50fc539c86aef1f75a6a3538b02029ea
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:56:55 2015 +1000

  Minor editing.

  * Fixed another URL.
  * Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bcaf66a88d9213af
Merge: db34286 48eb185
Author:
 Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:26:11 2015 +1000

  Merge pull request #1 from Hasimir/master

  Links

commit 48eb1856cb0739cc9f0b9084da9d965e1fc7fddd
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:22:30 2015 +1000

  Links

  * Fixed URLs for authors.

* Updated my entry to point to github location.
** I strongly suspect the result of this work will be concurrent
projects, so preparing for that eventuality with this repo.

README.rst | 8 ++++----
1 file changed, 4 insertions(+), 4 deletions(-)

commit db3428659783f30b9a76204403daedf9fc4cf7cf
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 11:29:00 2015 +1000

Explicit over Implicit ...

... isn't just for code.

* Removed the 2to3 working directory and its contents.
* Made the README.rst file a little more clear that this branch is for
Python 3 (set Python 3.2 as a fairly arbitrary requirement for the
moment, but will probably raise this
to 3.3).

2to3/2to3-output-remaining.log | 60 ---
2to3/2to3-output-setup.log | 35 --
2to3/2to3-output.log | 950 ----------
README.rst | 10 +-
4 files changed, 7 insertions(+), 1048 deletions(-)

commit 3edf07a4ba8a86af3a33246234d6e133074862af
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 11:19:41 2015 +1000

Added authors.

* In alphabetical order.
* Mine will need updating once Martin and I have decided what to do
regarding the two main branches.

README.rst | 12 ++++++++++++
1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:23:00 2015 +1000

Docs and other things.

* Now able to import pyme.core without error, indicates port process is
successful.

```
  * Code is *not* compatible with the Python 2 version.
  * Will need to consider making this a parallel project with the
master
    branch.
  * Got rid of the .org TODO file.
  * Changed the README to use the reST file extension since it's full of
    reST anyway.

2to3/TODO.org |  5 -----
README.rst    | 32 ++++++++++++++++++++++++++++++++
README.txt    | 32 --------------------------------
3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdcce1de6f7856921b5431044c62c6f015
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:18:40 2015 +1000

  Fixed another implicit import by making it explicit.  Hopefully this is the last one.

pyme/util.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 2b52b46ccda3e7abcc50eed0745062259d698661
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:16:01 2015 +1000

  Fixed another implicit import by making it explicit.

pyme/errors.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 409c8fd565e21f23cd41daaeffc867e6d23a0863
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:08:22
 2015 +1000

  Bytes vs. Unicode

  * Trying PyBytes instead of PyUnicode.

gpgme.i   | 14 +++++++-------
helpers.c |  8 ++++----
2 files changed, 11 insertions(+), 11 deletions(-)

commit d8164aa2ae98bf8c807c16e2d9be12c5fbea7cfd
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 09:22:58 2015 +1000
```

String to Unicode

* Replaced all instances of PyString with PyUnicode (and hoping there's
  no byte data in there).

gpgme.i | 14 +++++++-------
helpers.c | 8 ++++----
2 files changed, 11 insertions(+), 11 deletions(-)

commit bd99b7865656e559b17c419c6b64b412a22c6c44
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 09:17:06 2015 +1000

PyInt_AsLong

* Replaced all instances of PyInt with PyLong, as per C API docs.

gpgme.i | 4 ++--
helpers.c | 8 ++++----
2 files changed, 6 insertions(+), 6 deletions(-)

commit 3c91e2ccf8ca788b51e3308e292c6b64888fdb15
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:59:36 2015 +1000

Import correction

* Once pygpgme.py is generated and moved, it will be in the right
  directory for the explicit "from . import pygpgme" to be correct.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:38:29 2015 +1000

The -py3 flag.

Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9c20f75d1348a1d25938
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:01:42 2015 +1000

Fixed indentation - 4.

```
pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 05:00:16 2015 +1000

  Fixed indentation - 3.

pyme/core.py | 5 ++---
1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun
 May 3 04:53:21 2015 +1000

  Pet Peeve

  def pet_peeve(self):
      peeve = print("people who don't press return after a colon!")

  FFS!

pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:47:54 2015 +1000

  Fixed indentation - 2.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:46:01 2015 +1000

  Fixed indentation.

pyme/core.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bcd9b0283c7d8e022e8972f06f9f8
Author: Ben McGinnes <ben@adversary.org>
```

Date: Sun May 3 04:43:49 2015 +1000

  Replaced all tabs with 4 spaces.

pyme/core.py | 18 +++++++++---------
1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94ce1e11b8cdb833a9064527187330
Author: Ben McGinnes <ben@adversary.org>
Date:
  Sun May 3 04:39:07 2015 +1000

  SWIG flags in the wrong place.

Makefile | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 04:35:09 2015 +1000

  Fixed subprocess call for swig (again).

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcda53127b99b6cc8a6c7c4a99f20
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 04:32:40 2015 +1000

  Fixed subprocess call for swig.

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4c975f466ceb39835db7007df36fb2
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 03:51:48 2015 +1000

  Linking swig to py3

  * Changed the swig invocations to run with the -python -py3 flags explicitly.

Makefile | 4 ++--
setup.py | 2 +-
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6ddc8617a642185eea1f24ff791a

Author:
 Ben McGinnes <ben@adversary.org>
Date: Sat May 2 11:12:00 2015 +1000

  String fun

  * streamlined confdata details, including decoding strom binary to string.

setup.py | 4 +---
1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 10:46:59 2015 +1000

  Open File

  * Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py | 2 +-
examples/pygpa.py | 6 +++---
gpgme-h-clean.py | 2 +-
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 10:36:15 2015 +1000

  print() fix

  * Makefile includes a python print, changed from statement to function.

Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 406f7f2567b701502186fe0a325dc2a3491ff7f8
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 10:28:42
 2015 +1000

  Updated Makefile

  * set make to use python3 instead.
  * This will mean a successful port may need to be maintained separately
    from the original python2 code instead of merged, but ought to be able
    to share most things. So maybe merge with separated make files or a
    pre-make script to set python2 or python3 prior to building ... decide
    later, after it works.

```
Makefile | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 90b3efa5b193d37e08dc9b4ee766ba9ebc9412af
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:15:20 2015 +1000

  Env and a little license issue

  * Updated all the /usr/bin/env paths to point to python3.
  * Also fixed the hard coded /usr/bin/python paths.
  * Updated part of setup.py which gave the impression this package was
    only licensed under the GPL (it's actually licensed under the LGPL as
    well, essentially the same dual licensing as the GPGME library).

examples/PyGtkGpgKeys.py
  | 2 +-
examples/delkey.py         | 2 +-
examples/encrypt-to-all.py | 2 +-
examples/exportimport.py   | 2 +-
examples/genkey.py         | 2 +-
examples/inter-edit.py     | 2 +-
examples/pygpa.py          | 2 +-
examples/sign.py           | 2 +-
examples/signverify.py     | 2 +-
examples/simple.py         | 2 +-
examples/t-edit.py         | 2 +-
examples/testCMSgetkey.py  | 2 +-
examples/verifydetails.py  | 2 +-
gpgme-h-clean.py           | 2 +-
setup.py                   | 4 ++--
15 files changed, 16 insertions(+), 16 deletions(-)

commit 1a4b55dbccd2774344352e579130bf494bc5fa4b
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 08:50:54 2015 +1000

  Removed extraneous files.

  * The two .bak files.

pyme/errors.py.bak |  46 ----------------------
setup.py.bak       | 116 ----------------------------------------------------
2 files changed, 162 deletions(-)

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de
Author: Ben McGinnes <ben@adversary.org>
```

Date:
  Sat May 2 08:19:37 2015 +1000

  Added TODO.org

  * TODO list in Emacs org-mode.
  * Will eventually be removed along with this entire directory when the
    porting process is complete.

2to3/TODO.org | 5 +++++
1 file changed, 5 insertions(+)

commit 1548bf201059638675c5387c6f124d4b703363a9
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 07:58:40 2015 +1000

  2to3 conversion of remaining files

  * Ran the extended version against all the unmodified python files.
  * Only pyme/errors.py required additional work.

2to3/2to3-output-remaining.log | 60 ++
pyme/errors.py | 2 +-
pyme/errors.py.bak | 46 ++++++++++++++++++++++++++++++++++
3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 07:50:39 2015 +1000

  2to3 conversion of setup.py

  * Ran extended 2to3 command to produce
 python 3 code for setup.py.
  * Effectively testing for what to run against the other originally
    unmodified py2 files.

2to3/2to3-output-setup.log | 35 +++++++++++++++
setup.py | 7 ++-
setup.py.bak | 116 +++
3 files changed, 154 insertions(+), 4 deletions(-)

commit edad44955f59aa879e95a369591717fb19eec6b7
Author: Ben McGinnes <ben@adversary.org>
Date: Fri May 1 21:50:07 2015 +1000

  Removing 2to3 generated .bak files.

```
  * Not really needed with a real VCS, but couldn't hurt to have them for
    a couple of revisions.  ;)

examples/PyGtkGpgKeys.py.bak          | 663 ----------------
examples/encrypt-to-all.py.bak        |  65 --
examples/exportimport.py.bak          |  75 --
examples/genkey.py.bak                |  45 -
examples/inter-edit.py.bak            |  57 --
examples/pygpa.py.bak                 | 1457 --------------------------------
examples/sign.py.bak
              |  31 -
examples/signverify.py.bak            |  78 --
examples/simple.py.bak                |  52 --
examples/t-edit.py.bak                |  59 --
examples/testCMSgetkey.py.bak         |  45 -
examples/verifydetails.py.bak         | 100 ---
gpgme-h-clean.py.bak                  |  42 -
pyme/callbacks.py.bak                 |  47 --
pyme/constants/data/__init__.py.bak   |   4 -
pyme/constants/keylist/__init__.py.bak |   4 -
pyme/constants/sig/__init__.py.bak    |   4 -
pyme/core.py.bak                      | 463 ----------
pyme/util.py.bak                      |  72 --
pyme/version.py.bak                   |  41 -
20 files changed, 3404 deletions(-)

commit 1cfc3c969f885ed191610bffbbd60ac23fdd349e
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:45:50 2015 +1000

  2to3 conversion log

  * The output of the command to convert the code from Python 2 to 3.
  * Note: this contains the list of files which were not modified
 and
    which will or may need to be modified.

2to3/2to3-output.log | 950 ++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:36:58 2015 +1000

  2to3 conversion of pyme master

  * Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721
  * Ran this: or x in `find . | egrep .py$` ; do 2to3 -w $x; done ;
```

* Multiple files not modified, will record elsewhere (see next commit).

```
examples/PyGtkGpgKeys.py             |  10 +-
examples/PyGtkGpgKeys.py.bak         | 663 +++++++++++++++++
examples/encrypt-to-all.py           |  12 +-
examples/encrypt-to-all.py.bak       |  65 ++
examples/exportimport.py             |  20 +-
examples/exportimport.py.bak         |  75 ++
examples/genkey.py                   |   2 +-
examples/genkey.py.bak               |  45 +
examples/inter-edit.py
  |   8 +-
examples/inter-edit.py.bak           |  57 ++
examples/pygpa.py                    |  40 +-
examples/pygpa.py.bak                | 1457 ++++++++++++++++++++++++++++++++++++++
examples/sign.py                     |   2 +-
examples/sign.py.bak                 |  31 +
examples/signverify.py               |  18 +-
examples/signverify.py.bak           |  78 ++
examples/simple.py                   |   8 +-
examples/simple.py.bak               |  52 ++
examples/t-edit.py                   |  12 +-
examples/t-edit.py.bak               |  59 ++
examples/testCMSgetkey.py            |   8 +-
examples/testCMSgetkey.py.bak        |  45 +
examples/verifydetails.py            |  34 +-
examples/verifydetails.py.bak        | 100 +++
gpgme-h-clean.py                     |   2 +-
gpgme-h-clean.py.bak                 |  42 +
pyme/callbacks.py                    |   6 +-
pyme/callbacks.py.bak                |  47 ++
pyme/constants/data/__init__.py
      |   2 +-
pyme/constants/data/__init__.py.bak  |   4 +
pyme/constants/keylist/__init__.py   |   2 +-
pyme/constants/keylist/__init__.py.bak |   4 +
pyme/constants/sig/__init__.py       |   2 +-
pyme/constants/sig/__init__.py.bak   |   4 +
pyme/core.py                         |  26 +-
pyme/core.py.bak                     | 463 ++++++++++
pyme/util.py                         |   6 +-
pyme/util.py.bak                     |  72 ++
pyme/version.py                      |   2 +-
pyme/version.py.bak                  |  41 +
40 files changed, 3515 insertions(+), 111 deletions(-)

commit 459f3eca659b4949e394c4a032d9ce2053e6c721
Merge: c5966ab dae7f14
```

Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Wed Jul 9 10:48:33 2014 +0100

    Merged in jerrykan/pyme/fix_setup_26 (pull request #1)

    Provide support for using setup.py with Python v2.6

commit dae7f14a54e6c2bde0ad4da7308cc7fc0d0c0469
Author: John Kristensen
 <john.kristensen@dpipwe.tas.gov.au>
Date: Wed Jul 9 15:54:39 2014 +1000

    Provide support for using setup.py with Python v2.6

    The setup.py script uses subprocess.check_output() which was introduced
    in Python v2.7. The equivalent functionality can be achieved without
    adding much extra code and provide support for Python v2.6.

setup.py | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)

commit c5966abec9d772b3922d32650da288fd50a217be
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:43:00 2014 +0100

    README.txt in ReST, including headlines

README.txt | 8 ++++++--
1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:37:15 2014 +0100

    README.txt in ReST

README.txt | 25 ++++++++++++++----------
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484cba8801df23ccc5842335fa496c0df
Author:
 Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:28:12 2014 +0100

    added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in | 6 ++++++
README.md | 27 ---------------------------

README.txt | 27 ++++++++++++++++++++++++++
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Tue May 13 09:52:44 2014 +0100

  added mailing list to README

README.md | 19 +++++++++++++++++---
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sun May 11 13:34:28 2014 +0100

  we don't need a separate out of date ChangeLog file

ChangeLog | 802 --
1 file changed, 802 deletions(-)

commit 8263f1a6d38fdb7f5f3dd5c7e28f83caa7528a08
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:
  Sun May 11 13:32:31 2014 +0100

  adding README.md

README.md | 14 ++++++++++++++
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:43:06 2014 +0100

  ValueError -> RuntimeError

setup.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36aac0d10926a2335b739
Merge: eea6537 d2738b3
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:41:02 2014 +0100

  Merge branch 'master' of bitbucket.org:malb/pyme

  Conflicts:

setup.py

commit eea6537921061b4dcfc54e00a99d3fa110e71433
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:39:51 2014 +0100

check for swig

setup.py | 8 ++++++++
1 file changed, 8 insertions(+)

commit 53867bf9715ee1b4ea873bf5e2fbb7d9740a2b4a
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 +++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit d2738b35d63b1492d69641c5466103685f2d3a30
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

more friendly error message if gpgme is missing

setup.py | 8 +++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240becf8ba6cf1d4c1f64b2cb4c056f5163
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Fri May 9 15:20:24 2014 +0100

version number should have three digits

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Wed May 7 15:11:08 2014 +0100

bump version number for upcoming release

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788

Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:
  Sat May 3 19:36:25 2014 +0100

  bump version number to indicate changes

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b3f47c1a343242ac83b326cacd12a136e
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:34:07 2014 +0100

  pyme instead of pygpgme

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45ccb82333b25f2cf36ce7d
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:31:10 2014 +0100

  dirty hack to make 'python setup.py install' work

setup.py | 7 ++++---
1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eab9db478b7e603324bc5d243bd3c84bad
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:05:44 2014 +0100

  moved everything down to the toplevel directory

COPYING | 340 ++
COPYING.LESSER | 510 +++
ChangeLog
                    | 802 +++++
INSTALL | 15 +
Makefile | 104 +
debian/README.Debian | 6 +
debian/changelog | 93 +
debian/control | 34 +
debian/copyright | 25 +
debian/docs | 2 +
debian/examples | 2 +
debian/rules | 99 +
examples/PyGtkGpgKeys.glade | 1394 ++++++++
examples/PyGtkGpgKeys.gladep | 8 +

```
examples/PyGtkGpgKeys.py             | 663 ++++
examples/delkey.py                   |  34 +
examples/encrypt-to-all.py           |  65 +
examples/exportimport.py             |  75 +
examples/genkey.py                   |  45 +
examples/inter-edit.py               |  57 +
examples/pygpa.glade                 | 5546 ++++++++++++++++++++++++++++++++++++++
examples/pygpa.py
                    | 1457 ++++++++
examples/sign.py                     |  31 +
examples/signverify.py               |  78 +
examples/simple.py                   |  52 +
examples/t-edit.py                   |  59 +
examples/testCMSgetkey.py            |  45 +
examples/verifydetails.py            | 100 +
gpgme-h-clean.py                     |  42 +
gpgme.i                              | 267 ++
helpers.c                            | 154 +
helpers.h                            |  36 +
pyme/COPYING                         | 340 --
pyme/COPYING.LESSER                  | 510 ---
pyme/ChangeLog                       | 802 -----
pyme/INSTALL                         |  15 -
pyme/Makefile                        | 104 -
pyme/__init__.py                     | 137 +
pyme/callbacks.py                    |  47 +
pyme/constants/__init__.py           |   7 +
pyme/constants/data/__init__.py      |   4
 +
pyme/constants/data/encoding.py      |  20 +
pyme/constants/event.py              |  20 +
pyme/constants/import.py             |  20 +
pyme/constants/keylist/__init__.py   |   4 +
pyme/constants/keylist/mode.py       |  20 +
pyme/constants/md.py                 |  20 +
pyme/constants/pk.py                 |  20 +
pyme/constants/protocol.py           |  20 +
pyme/constants/sig/__init__.py       |   4 +
pyme/constants/sig/mode.py           |  20 +
pyme/constants/sigsum.py             |  20 +
pyme/constants/status.py             |  20 +
pyme/constants/validity.py           |  20 +
pyme/core.py                         | 463 +++
pyme/debian/README.Debian            |   6 -
pyme/debian/changelog                |  93 -
pyme/debian/control                  |  34 -
pyme/debian/copyright                |  25 -
pyme/debian/docs                     |   2 -
```

```
pyme/debian/examples                |
 2 -
pyme/debian/rules                   |  99 -
pyme/errors.py                      |  46 +
pyme/examples/PyGtkGpgKeys.glade    | 1394 --------
pyme/examples/PyGtkGpgKeys.gladep   |   8 -
pyme/examples/PyGtkGpgKeys.py       |  663 ----
pyme/examples/delkey.py             |  34 -
pyme/examples/encrypt-to-all.py     |  65 -
pyme/examples/exportimport.py       |  75 -
pyme/examples/genkey.py             |  45 -
pyme/examples/inter-edit.py         |  57 -
pyme/examples/pygpa.glade           | 5546 ------------------------------
pyme/examples/pygpa.py              | 1457 --------
pyme/examples/sign.py               |  31 -
pyme/examples/signverify.py         |  78 -
pyme/examples/simple.py             |  52 -
pyme/examples/t-edit.py             |  59 -
pyme/examples/testCMSgetkey.py      |  45 -
pyme/examples/verifydetails.py      | 100 -
pyme/gpgme-h-clean.py               |  42 -
 pyme/gpgme.i                       | 267 --
pyme/helpers.c                      | 154 -
pyme/helpers.h                      |  36 -
pyme/pyme/__init__.py               | 137 -
pyme/pyme/callbacks.py              |  47 -
pyme/pyme/constants/__init__.py     |   7 -
pyme/pyme/constants/data/__init__.py |  4 -
pyme/pyme/constants/data/encoding.py |  20 -
pyme/pyme/constants/event.py        |  20 -
pyme/pyme/constants/import.py       |  20 -
pyme/pyme/constants/keylist/__init__.py |  4 -
pyme/pyme/constants/keylist/mode.py |  20 -
pyme/pyme/constants/md.py           |  20 -
pyme/pyme/constants/pk.py           |  20 -
pyme/pyme/constants/protocol.py     |  20 -
pyme/pyme/constants/sig/__init__.py |   4 -
pyme/pyme/constants/sig/mode.py     |  20 -
pyme/pyme/constants/sigsum.py       |  20 -
pyme/pyme/constants/status.py       |  20 -
pyme/pyme/constants/validity.py     |  20
 -
pyme/pyme/core.py                   | 463 ---
pyme/pyme/errors.py                 |  46 -
pyme/pyme/util.py                   |  72 -
pyme/pyme/version.py                |  41 -
pyme/setup.py                       |  99 -
pyme/util.py                        |  72 +
```

```
pyme/version.py                    |  41 +
setup.py                           |  99 +
108 files changed, 13384 insertions(+), 13384 deletions(-)

commit 8148cdd424c434e833ce427612ea8c89abc6e41c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 18:58:52 2014 +0100

  removing pyme-web

pyme-web/Makefile                          |  15 -
pyme-web/default.css                       |  37 --
pyme-web/doc/gpgme/ASCII-Armor.html        |  57 ---
pyme-web/doc/gpgme/Advanced-Key-Editing.html  |  98 ----
pyme-web/doc/gpgme/Algorithms.html         |  47 --
pyme-web/doc/gpgme/Building-the-Source.html   |  82 ----
 .../doc/gpgme/Callback-Based-Data-Buffers.html  | 148 ------
pyme-web/doc/gpgme/Cancellation.html       |  67 ---
pyme-web/doc/gpgme/Concept-Index.html      | 186 -------
pyme-web/doc/gpgme/Context-Attributes.html    |  52 --
pyme-web/doc/gpgme/Contexts.html           |  61 ---
pyme-web/doc/gpgme/Creating-Contexts.html     |  49 --
pyme-web/doc/gpgme/Creating-Data-Buffers.html  |  47 --
pyme-web/doc/gpgme/Creating-a-Signature.html  | 143 ------
pyme-web/doc/gpgme/Crypto-Engine.html      |  79 ---
pyme-web/doc/gpgme/Crypto-Operations.html     |  67 ---
.../doc/gpgme/Cryptographic-Message-Syntax.html  |  42 --
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html  | 104 ----
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html  | 100 ----
pyme-web/doc/gpgme/Decrypt-and-Verify.html    |  79 ---
pyme-web/doc/gpgme/Decrypt.html            | 123 -----
pyme-web/doc/gpgme/Deleting-Keys.html      |  67
 ---
pyme-web/doc/gpgme/Destroying-Contexts.html   |  46 --
pyme-web/doc/gpgme/Destroying-Data-Buffers.html  |  70 ---
pyme-web/doc/gpgme/Encrypt.html            |  45 --
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html  | 147 ------
pyme-web/doc/gpgme/Engine-Configuration.html  |  65 ---
pyme-web/doc/gpgme/Engine-Information.html    | 119 -----
pyme-web/doc/gpgme/Engine-Version-Check.html  |  48 --
pyme-web/doc/gpgme/Error-Codes.html        | 133 -----
pyme-web/doc/gpgme/Error-Handling.html     |  72 ---
pyme-web/doc/gpgme/Error-Sources.html      |  89 ----
pyme-web/doc/gpgme/Error-Strings.html      |  80 ---
pyme-web/doc/gpgme/Error-Values.html       | 159 ------
pyme-web/doc/gpgme/Exchanging-Data.html    |  58 ---
pyme-web/doc/gpgme/Exporting-Keys.html     | 101 ----
pyme-web/doc/gpgme/Features.html           |  59 ---
```

```
pyme-web/doc/gpgme/File-Based-Data-Buffers.html    |  74
 ---
pyme-web/doc/gpgme/Function-and-Data-Index.html    | 229 ---------
pyme-web/doc/gpgme/Generating-Keys.html            | 144 ------
pyme-web/doc/gpgme/Getting-Started.html            |  55 ---
pyme-web/doc/gpgme/Hash-Algorithms.html            |  59 ---
pyme-web/doc/gpgme/Header.html                     |  53 --
.../doc/gpgme/I_002fO-Callback-Example-GDK.html    |  85 ----
.../gpgme/I_002fO-Callback-Example-GTK_002b.html   |  86 ----
.../doc/gpgme/I_002fO-Callback-Example-Qt.html     |  99 ----
pyme-web/doc/gpgme/I_002fO-Callback-Example.html   | 259 ----------
pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 ------
pyme-web/doc/gpgme/Importing-Keys.html             | 171 -------
pyme-web/doc/gpgme/Included-Certificates.html      |  70 ---
pyme-web/doc/gpgme/Information-About-Keys.html     | 207 --------
.../doc/gpgme/Information-About-Trust-Items.html   |  75 ---
pyme-web/doc/gpgme/Introduction.html               |  53 --
pyme-web/doc/gpgme/Key-Listing-Mode.html
          |  99 ----
pyme-web/doc/gpgme/Key-Management.html             | 260 ----------
pyme-web/doc/gpgme/Key-Signatures.html             | 130 -----
.../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 -----
pyme-web/doc/gpgme/Library-Copying.html            | 542 ----------------------
pyme-web/doc/gpgme/Library-Version-Check.html      |  97 ----
pyme-web/doc/gpgme/Listing-Keys.html               | 204 --------
pyme-web/doc/gpgme/Listing-Trust-Items.html        |  88 ----
pyme-web/doc/gpgme/Locale.html                     |  69 ---
pyme-web/doc/gpgme/Manipulating-Data-Buffers.html  |  45 --
pyme-web/doc/gpgme/Manipulating-Keys.html          |  63 ---
pyme-web/doc/gpgme/Manipulating-Trust-Items.html   |  62 ---
pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html  | 107 ----
pyme-web/doc/gpgme/Multi-Threading.html            |  93 ----
pyme-web/doc/gpgme/OpenPGP.html                    |  44 --
pyme-web/doc/gpgme/Overview.html                   |  57 ---
pyme-web/doc/gpgme/Passphrase-Callback.html
        | 101 ----
pyme-web/doc/gpgme/Preparation.html                |  54 --
pyme-web/doc/gpgme/Progress-Meter-Callback.html    |  80 ---
pyme-web/doc/gpgme/Protocol-Selection.html         |  60 ---
pyme-web/doc/gpgme/Protocols-and-Engines.html      |  82 ----
pyme-web/doc/gpgme/Public-Key-Algorithms.html      |  74 ---
.../doc/gpgme/Registering-I_002fO-Callbacks.html   |  81 ---
pyme-web/doc/gpgme/Run-Control.html                |  53 --
pyme-web/doc/gpgme/Selecting-Signers.html          |  64 ---
pyme-web/doc/gpgme/Sign.html                       |  50 --
pyme-web/doc/gpgme/Signal-Handling.html            |  61 ---
pyme-web/doc/gpgme/Signature-Notation-Data.html    |  85 ----
pyme-web/doc/gpgme/Text-Mode.html                  |  63 ---
```

```
pyme-web/doc/gpgme/Trust-Item-Management.html      |  68 ---
pyme-web/doc/gpgme/Using-Automake.html             |  74 ---
pyme-web/doc/gpgme/Using-External-Event-Loops.html |  74 ---
pyme-web/doc/gpgme/Using-Libtool.html
            |  44 --
pyme-web/doc/gpgme/Verify.html                     | 492 ----------
pyme-web/doc/gpgme/Waiting-For-Completion.html     |  77 ---
pyme-web/doc/gpgme/index.html                      | 169 -------
pyme-web/doc/pyme/index.html                       | 164 -------
pyme-web/doc/pyme/pyme.callbacks.html              |  42 --
.../doc/pyme/pyme.constants.data.encoding.html     |  48 --
pyme-web/doc/pyme/pyme.constants.data.html         |  29 --
pyme-web/doc/pyme/pyme.constants.event.html        |  48 --
pyme-web/doc/pyme/pyme.constants.html              |  39 --
pyme-web/doc/pyme/pyme.constants.import.html       |  49 --
pyme-web/doc/pyme/pyme.constants.keylist.html      |  29 --
pyme-web/doc/pyme/pyme.constants.keylist.mode.html |  49 --
pyme-web/doc/pyme/pyme.constants.md.html           |  58 ---
pyme-web/doc/pyme/pyme.constants.pk.html           |  50 --
pyme-web/doc/pyme/pyme.constants.protocol.html     |  48 --
pyme-web/doc/pyme/pyme.constants.sig.html
          |  29 --
pyme-web/doc/pyme/pyme.constants.sig.mode.html     |  47 --
pyme-web/doc/pyme/pyme.constants.sigsum.html       |  55 ---
pyme-web/doc/pyme/pyme.constants.status.html       | 126 -----
pyme-web/doc/pyme/pyme.constants.validity.html     |  50 --
pyme-web/doc/pyme/pyme.core.html                   | 277 ----------
pyme-web/doc/pyme/pyme.errors.html                 |  82 ----
pyme-web/doc/pyme/pyme.html                        | 164 -------
pyme-web/doc/pyme/pyme.util.html                   |  81 ---
pyme-web/doc/pyme/pyme.version.html                |  37 --
pyme-web/index.html                                |  72 ---
112 files changed, 10551 deletions(-)

commit 684d95feb7e10e538a56fb1b27f1456111bacb60
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Mon Jan 6 17:44:20 2014 +0100

    fixing op_export_keys()

    the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the
    name recv, i.e. only
 the use-cases of encryption were covered.

    see: http://sourceforge.net/mailarchive/forum.php?forum_name=pyme-
help&max_rows=25&style=nested&viewmonth=201309

pyme/gpgme.i | 6 ++---
```

1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Mon Jan 6 17:41:33 2014 +0100

  deleting CVSROOT

CVSROOT/checkoutlist | 13 ----------
CVSROOT/commitinfo | 15 ----------
CVSROOT/config | 21 ----------
CVSROOT/cvswrappers | 19 ----------
CVSROOT/editinfo | 21 ----------
CVSROOT/loginfo | 26 ----------
CVSROOT/modules | 26 ----------
CVSROOT/notify | 12 ----------
CVSROOT/rcsinfo | 13 ----------
CVSROOT/taginfo | 20 ----------
CVSROOT/verifymsg | 21 ----------
11 files changed, 207 deletions(-)

commit 576b555499c094c4786d42de9e59aa9826009b89
Author:
 convert-repo <devnull@localhost>
Date: Mon Jan 6 15:22:44 2014 +0000

  update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d
Author: belyi <devnull@localhost>
Date: Wed Nov 26 02:38:33 2008 +0000

  Move Windows specific fix from helpers.c to helpers.h so that it works
  for edit callback as well as for the passphrase one.

pyme/helpers.c | 5 -----
pyme/helpers.h | 5 +++++
2 files changed, 5 insertions(+), 5 deletions(-)

commit 42a035f2ef62470fea7a7f8ee33a1297fa90a603
Author: belyi <devnull@localhost>
Date: Mon Nov 24 21:44:30 2008 +0000

  Update the way build directives are constructed on MinGW to have a bit
  more robust. Update PyMe build version to 0.8.1 in version.py

pyme/pyme/version.py | 2 +-
pyme/setup.py | 10 ++++++++--

2 files changed, 9 insertions(+), 3 deletions(-)

commit 3aaa20fbcba17066c9ffd580f5209946022793a2
Author: belyi <devnull@localhost>
Date: Mon Nov 24 06:57:11 2008 +0000

  Update changelog

pyme/debian/changelog
 | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit 689ff46b2550547e3883f809a6dc40c22c3e137e
Author: belyi <devnull@localhost>
Date: Mon Nov 24 06:50:41 2008 +0000

  Fix hang problem on Windows when password is written to a filehandle.
  Fix the way path is constructed on MinGW platform.

pyme/helpers.c | 5 +++++
pyme/setup.py | 4 ++--
2 files changed, 7 insertions(+), 2 deletions(-)

commit 852a60d541d66cb56f40378182b976fd87a02c46
Author: belyi <devnull@localhost>
Date: Sun Nov 23 04:31:31 2008 +0000

  Add Bernard's example testCMSgetkey.py and his updates for
  verifydetails.py

pyme/examples/testCMSgetkey.py | 45 ++
pyme/examples/verifydetails.py | 43 ++----------
2 files changed, 77 insertions(+), 11 deletions(-)

commit f080527d9184f3360f0a8ef6136b9a188d8e7d2a
Author: belyi <devnull@localhost>
Date: Thu May 29 18:29:37 2008 +0000

  Remove debian packaging for python2.3
 since it is removed from both
  testing and unstable dists.
  Update docs build target to have correct PYTHONPATH set.

pyme/Makefile | 2 +-
pyme/debian/changelog | 4 +++-
pyme/debian/control | 4 ++--
pyme/debian/rules | 2 --
4 files changed, 6 insertions(+), 6 deletions(-)

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b
Author: belyi <devnull@localhost>
Date: Thu Apr 3 13:37:12 2008 +0000

  Forgot to adjust mainText margin. Doing it now.

pyme-web/default.css | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 897286a54a32336d060cd03305cdecb7905f34f1
Author: belyi <devnull@localhost>
Date: Thu Apr 3 13:00:11 2008 +0000

  Fix an error in default.css and make index.html "Standards Compliant".

pyme-web/default.css | 2 +-
pyme-web/index.html | 7 ++++---
2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a
Author: belyi <devnull@localhost>
Date: Thu Apr 3 12:38:42 2008 +0000

  Adjust spacing
between links.

pyme-web/default.css | 9 ++++++---
1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bddfbd77483b1deb14f2eab0715a03dd33fcd
Author: belyi <devnull@localhost>
Date: Wed Apr 2 22:50:21 2008 +0000

  Make style a big more IE friendly.

pyme-web/default.css | 15 ++++++++++----
1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232
Author: belyi <devnull@localhost>
Date: Wed Apr 2 11:58:32 2008 +0000

  Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +-
pyme-web/doc/gpgme/Concept-Index.html | 2 +-
pyme-web/doc/gpgme/Contexts.html | 2 +-

```
pyme-web/doc/gpgme/Error-Handling.html          |   2 +-
pyme-web/doc/gpgme/Exchanging-Data.html         |   2 +-
pyme-web/doc/gpgme/Function-and-Data-Index.html |   2 +-
pyme-web/doc/gpgme/Introduction.html            |   4 +-
pyme-web/doc/gpgme/Library-Copying.html
        |   2 +-
pyme-web/doc/gpgme/Preparation.html             |   2 +-
pyme-web/doc/gpgme/Protocols-and-Engines.html   |   2 +-
pyme-web/doc/gpgme/index.html                   | 229 +-----------------------
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0ccb049d4442e7732e2d1d05dabffd2a21d
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 06:12:57 2008 +0000

   Add missing core.set_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +-
pyme/pyme/core.py     | 4 ++++
2 files changed, 5 insertions(+), 1 deletion(-)

commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 05:50:24 2008 +0000

   Avoid leaks caused by keys.
   Add set/get methods for engine info.

pyme/debian/changelog | 10 ++++++++++
pyme/pyme/core.py     | 24 ++++++++++++++++++++++++
2 files changed, 34 insertions(+)

commit df4a2fb518adbb6420d95ce74af212c87abff7e7
Author: belyi <devnull@localhost>
Date:   Wed Apr 2
 04:04:41 2008 +0000

   Update index.html to reflect new versions on the web.

pyme-web/Makefile             | 3 ++-
pyme-web/doc/gpgme/index.html | 4 +---
pyme-web/index.html           | 4 ++--
3 files changed, 5 insertions(+), 6 deletions(-)

commit bd3ffc9bdf98d6aafde6b689c6c8215fa468612d
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 04:01:04 2008 +0000
```

Update PyMe documentation to match 0.8.0 version of the package.

```
pyme-web/doc/pyme/index.html                    | 14 ++++-----
pyme-web/doc/pyme/pyme.constants.keylist.mode.html |  1 +
pyme-web/doc/pyme/pyme.constants.protocol.html     |  4 ++-
pyme-web/doc/pyme/pyme.constants.status.html       |  9 ++++++
pyme-web/doc/pyme/pyme.core.html                   | 36 ++++++++++++++++++----
pyme-web/doc/pyme/pyme.errors.html                 |  8 ++---
pyme-web/doc/pyme/pyme.html                        | 14 ++++-----
pyme-web/doc/pyme/pyme.util.html                   | 17 ++++++++--
pyme-web/doc/pyme/pyme.version.html
              | 14 ++++-----
9 files changed, 82 insertions(+), 35 deletions(-)

commit 6973a69a317608a0d0661590d701f4e3f3a21b32
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 02:35:24 2008 +0000
```

Have a fix for Contents being put onto 'Function and Data Index' page.

```
pyme-web/doc/gpgme/Concept-Index.html          |   2 +-
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +----------------------
pyme-web/doc/gpgme/index.html                  | 154 ++++++++++++++++++++++++-
3 files changed, 155 insertions(+), 154 deletions(-)

commit 086315964cbc2abad1187f306dcb9c72ac3257f3
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 01:00:29 2008 +0000
```

Update GPGME documentation. It's for v1.1.6 now.

```
pyme-web/doc/gpgme/ASCII-Armor.html               |  57 ++
pyme-web/doc/gpgme/Advanced-Key-Editing.html      |  98 +++
pyme-web/doc/gpgme/Algorithms.html                |  47 ++
pyme-web/doc/gpgme/Building-the-Source.html       |  82 +++
.../doc/gpgme/Callback-Based-Data-Buffers.html
    | 148 +++++
pyme-web/doc/gpgme/Cancellation.html              |  67 ++
pyme-web/doc/gpgme/Concept-Index.html             | 186 ++++++
pyme-web/doc/gpgme/Context-Attributes.html        |  52 ++
pyme-web/doc/gpgme/Contexts.html                  |  61 ++
pyme-web/doc/gpgme/Creating-Contexts.html         |  49 ++
pyme-web/doc/gpgme/Creating-Data-Buffers.html     |  47 ++
pyme-web/doc/gpgme/Creating-a-Signature.html      | 143 +++++
pyme-web/doc/gpgme/Crypto-Engine.html             |  79 +++
pyme-web/doc/gpgme/Crypto-Operations.html         |  67 ++
.../doc/gpgme/Cryptographic-Message-Syntax.html   |  42 ++
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ++++
```

pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 +++
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 +++
pyme-web/doc/gpgme/Decrypt.html | 123 ++++
pyme-web/doc/gpgme/Deleting-Keys.html | 67 ++
pyme-web/doc/gpgme/Destroying-Contexts.html
| 46 ++
pyme-web/doc/gpgme/Destroying-Data-Buffers.html | 70 +++
pyme-web/doc/gpgme/Encrypt.html | 45 ++
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 +++++
pyme-web/doc/gpgme/Engine-Configuration.html | 65 ++
pyme-web/doc/gpgme/Engine-Information.html | 119 ++++
pyme-web/doc/gpgme/Engine-Version-Check.html | 48 ++
pyme-web/doc/gpgme/Error-Codes.html | 133 ++++
pyme-web/doc/gpgme/Error-Handling.html | 72 +++
pyme-web/doc/gpgme/Error-Sources.html | 89 +++
pyme-web/doc/gpgme/Error-Strings.html | 80 +++
pyme-web/doc/gpgme/Error-Values.html | 159 +++++
pyme-web/doc/gpgme/Exchanging-Data.html | 58 ++
pyme-web/doc/gpgme/Exporting-Keys.html | 101 +++
pyme-web/doc/gpgme/Features.html | 59 ++
pyme-web/doc/gpgme/File-Based-Data-Buffers.html | 74 +++
pyme-web/doc/gpgme/Function-and-Data-Index.html
| 380 ++++++++++++
pyme-web/doc/gpgme/Generating-Keys.html | 144 +++++
pyme-web/doc/gpgme/Getting-Started.html | 55 ++
pyme-web/doc/gpgme/Hash-Algorithms.html | 59 ++
pyme-web/doc/gpgme/Header.html | 53 ++
.../doc/gpgme/I_002fO-Callback-Example-GDK.html | 85 +++
.../gpgme/I_002fO-Callback-Example-GTK_002b.html | 86 +++
.../doc/gpgme/I_002fO-Callback-Example-Qt.html | 99 +++
pyme-web/doc/gpgme/I_002fO-Callback-Example.html | 259 ++++++++
pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 +++++
pyme-web/doc/gpgme/Importing-Keys.html | 171 +++++
pyme-web/doc/gpgme/Included-Certificates.html | 70 +++
pyme-web/doc/gpgme/Information-About-Keys.html | 207 +++++++
.../doc/gpgme/Information-About-Trust-Items.html | 75 +++
pyme-web/doc/gpgme/Introduction.html | 53 ++
pyme-web/doc/gpgme/Key-Listing-Mode.html | 99 +++
pyme-web/doc/gpgme/Key-Management.html
| 260 ++++++++
pyme-web/doc/gpgme/Key-Signatures.html | 130 ++++
.../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 ++++
pyme-web/doc/gpgme/Library-Copying.html | 542 ++++++++++++++++++
pyme-web/doc/gpgme/Library-Version-Check.html | 97 +++
pyme-web/doc/gpgme/Listing-Keys.html | 204 ++++++
pyme-web/doc/gpgme/Listing-Trust-Items.html | 88 +++
pyme-web/doc/gpgme/Locale.html | 69 +++
pyme-web/doc/gpgme/Manipulating-Data-Buffers.html | 45 ++

```
pyme-web/doc/gpgme/Manipulating-Keys.html          |  63 ++
pyme-web/doc/gpgme/Manipulating-Trust-Items.html   |  62 ++
pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html  | 107 ++++
pyme-web/doc/gpgme/Multi-Threading.html            |  93 +++
pyme-web/doc/gpgme/OpenPGP.html                    |  44 ++
pyme-web/doc/gpgme/Overview.html                   |  57 ++
pyme-web/doc/gpgme/Passphrase-Callback.html        | 101 +++
pyme-web/doc/gpgme/Preparation.html
             |  54 ++
pyme-web/doc/gpgme/Progress-Meter-Callback.html    |  80 +++
pyme-web/doc/gpgme/Protocol-Selection.html         |  60 ++
pyme-web/doc/gpgme/Protocols-and-Engines.html      |  82 +++
pyme-web/doc/gpgme/Public-Key-Algorithms.html      |  74 +++
.../doc/gpgme/Registering-I_002fO-Callbacks.html   |  81 +++
pyme-web/doc/gpgme/Run-Control.html                |  53 ++
pyme-web/doc/gpgme/Selecting-Signers.html          |  64 ++
pyme-web/doc/gpgme/Sign.html                       |  50 ++
pyme-web/doc/gpgme/Signal-Handling.html            |  61 ++
pyme-web/doc/gpgme/Signature-Notation-Data.html    |  85 +++
pyme-web/doc/gpgme/Text-Mode.html                  |  63 ++
pyme-web/doc/gpgme/Trust-Item-Management.html      |  68 ++
pyme-web/doc/gpgme/Using-Automake.html             |  74 +++
pyme-web/doc/gpgme/Using-External-Event-Loops.html |  74 +++
pyme-web/doc/gpgme/Using-Libtool.html              |  44 ++
pyme-web/doc/gpgme/Verify.html
                 | 492 ++++++++++++++++
pyme-web/doc/gpgme/Waiting-For-Completion.html     |  77 +++
pyme-web/doc/gpgme/gpgme.html                      | 251 --------
pyme-web/doc/gpgme/gpgme_1.html                    |  76 ---
pyme-web/doc/gpgme/gpgme_10.html                   |  61 --
pyme-web/doc/gpgme/gpgme_11.html                   | 130 ----
pyme-web/doc/gpgme/gpgme_12.html                   |  82 ---
pyme-web/doc/gpgme/gpgme_13.html                   | 130 ----
pyme-web/doc/gpgme/gpgme_14.html                   | 108 ----
pyme-web/doc/gpgme/gpgme_15.html                   |  69 ---
pyme-web/doc/gpgme/gpgme_16.html                   | 169 -----
pyme-web/doc/gpgme/gpgme_17.html                   |  63 --
pyme-web/doc/gpgme/gpgme_18.html                   |  63 --
pyme-web/doc/gpgme/gpgme_19.html                   |  66 --
pyme-web/doc/gpgme/gpgme_2.html                    |  79 ---
pyme-web/doc/gpgme/gpgme_20.html                   | 120 ----
pyme-web/doc/gpgme/gpgme_21.html
                 | 102 ---
pyme-web/doc/gpgme/gpgme_22.html                   | 108 ----
pyme-web/doc/gpgme/gpgme_23.html                   | 237 -------
pyme-web/doc/gpgme/gpgme_24.html                   | 154 -----
pyme-web/doc/gpgme/gpgme_25.html                   | 248 --------
pyme-web/doc/gpgme/gpgme_26.html                   | 107 ----
```

```
pyme-web/doc/gpgme/gpgme_27.html            |  80 ---
pyme-web/doc/gpgme/gpgme_28.html            |  67 --
pyme-web/doc/gpgme/gpgme_29.html            | 164 -----
pyme-web/doc/gpgme/gpgme_3.html             |  86 ---
pyme-web/doc/gpgme/gpgme_30.html            | 106 ----
pyme-web/doc/gpgme/gpgme_31.html            | 232 -------
pyme-web/doc/gpgme/gpgme_32.html            |  85 ---
pyme-web/doc/gpgme/gpgme_33.html            | 223 -------
pyme-web/doc/gpgme/gpgme_34.html            |  83 ---
pyme-web/doc/gpgme/gpgme_35.html            |  70 ---
pyme-web/doc/gpgme/gpgme_36.html
            |  63 --
pyme-web/doc/gpgme/gpgme_37.html            |  66 --
pyme-web/doc/gpgme/gpgme_38.html            |  86 ---
pyme-web/doc/gpgme/gpgme_39.html            |  79 ---
pyme-web/doc/gpgme/gpgme_4.html             |  83 ---
pyme-web/doc/gpgme/gpgme_40.html            |  89 ---
pyme-web/doc/gpgme/gpgme_41.html            |  99 ---
pyme-web/doc/gpgme/gpgme_42.html            | 144 -----
pyme-web/doc/gpgme/gpgme_43.html            | 152 -----
pyme-web/doc/gpgme/gpgme_44.html            | 112 ----
pyme-web/doc/gpgme/gpgme_45.html            | 101 ---
pyme-web/doc/gpgme/gpgme_46.html            | 459 ----------
pyme-web/doc/gpgme/gpgme_47.html            | 292 ---------
pyme-web/doc/gpgme/gpgme_48.html            | 363 ----------
pyme-web/doc/gpgme/gpgme_49.html            | 209 -------
pyme-web/doc/gpgme/gpgme_5.html
          |  74 ---
pyme-web/doc/gpgme/gpgme_50.html            |  88 ---
pyme-web/doc/gpgme/gpgme_51.html            | 208 -------
pyme-web/doc/gpgme/gpgme_52.html            | 154 -----
pyme-web/doc/gpgme/gpgme_53.html            | 291 ---------
pyme-web/doc/gpgme/gpgme_54.html            |  91 ---
pyme-web/doc/gpgme/gpgme_55.html            | 107 ----
pyme-web/doc/gpgme/gpgme_56.html            | 140 -----
pyme-web/doc/gpgme/gpgme_57.html            | 106 ----
pyme-web/doc/gpgme/gpgme_58.html            |  89 ---
pyme-web/doc/gpgme/gpgme_59.html            |  97 ---
pyme-web/doc/gpgme/gpgme_6.html             |  77 ---
pyme-web/doc/gpgme/gpgme_60.html            | 142 -----
pyme-web/doc/gpgme/gpgme_61.html            | 626 ----------
pyme-web/doc/gpgme/gpgme_62.html            | 107 ----
pyme-web/doc/gpgme/gpgme_63.html            |  67 --
pyme-web/doc/gpgme/gpgme_64.html
            |  95 ---
pyme-web/doc/gpgme/gpgme_65.html            | 233 -------
pyme-web/doc/gpgme/gpgme_66.html            |  65 --
pyme-web/doc/gpgme/gpgme_67.html            | 220 -------
```

```
pyme-web/doc/gpgme/gpgme_68.html               |  75 ---
pyme-web/doc/gpgme/gpgme_69.html               | 119 ----
pyme-web/doc/gpgme/gpgme_7.html                | 123 ----
pyme-web/doc/gpgme/gpgme_70.html               | 107 ----
pyme-web/doc/gpgme/gpgme_71.html               | 218 -------
pyme-web/doc/gpgme/gpgme_72.html               | 134 ----
pyme-web/doc/gpgme/gpgme_73.html               | 299 ---------
pyme-web/doc/gpgme/gpgme_74.html               | 103 ----
pyme-web/doc/gpgme/gpgme_75.html               | 104 ----
pyme-web/doc/gpgme/gpgme_76.html               | 118 ----
pyme-web/doc/gpgme/gpgme_77.html               |  95 ---
pyme-web/doc/gpgme/gpgme_78.html               |  71 ---
 pyme-web/doc/gpgme/gpgme_79.html              | 686 ----------------------
pyme-web/doc/gpgme/gpgme_8.html                | 155 -----
pyme-web/doc/gpgme/gpgme_80.html               | 120 ----
pyme-web/doc/gpgme/gpgme_81.html               | 278 ---------
pyme-web/doc/gpgme/gpgme_82.html               | 272 --------
pyme-web/doc/gpgme/gpgme_83.html               | 180 ------
pyme-web/doc/gpgme/gpgme_84.html               |  99 ---
pyme-web/doc/gpgme/gpgme_9.html                | 104 ----
pyme-web/doc/gpgme/gpgme_abt.html              | 206 -------
pyme-web/doc/gpgme/gpgme_fot.html              |  53 --
pyme-web/doc/gpgme/gpgme_ovr.html              |  68 --
pyme-web/doc/gpgme/gpgme_toc.html              | 247 --------
pyme-web/doc/gpgme/index.html                  | 497 ++++++++-------
176 files changed, 9054 insertions(+), 13378 deletions(-)

commit 163c1053dc761682f5a4231da163bdd0ff7162d7
Author: belyi <devnull@localhost>
Date:
   Tue Apr 1 21:14:29 2008 +0000

   Update Home page to be a bit more visitor friendly.

pyme-web/Makefile    |  2 +-
pyme-web/default.css | 27 ++++++++++++++++++++
pyme-web/index.html  | 70 ++++++++++++++++++++
```

```
commit 57acb1089f5f8c24323ee62fc0a7f492a496b9c0
Author: belyi <devnull@localhost>
Date:   Sat Mar 29 22:50:11 2008 +0000

  Switch to using central location for python files (pycentral)
  Update docs rule to fix location of the python source files.

pyme/Makefile            |  5 +++-
pyme/debian/changelog    |  4 ++-
pyme/debian/control      | 74 +++++-----------------------------------------
pyme/debian/dirs
         |  2 --
pyme/debian/docs         |  1 +
pyme/debian/postinst.ex  | 48 ------------------------------
pyme/debian/postrm.ex    | 38 ------------------------
pyme/debian/preinst.ex   | 44 ------------------------------
pyme/debian/prerm.ex     | 39 ------------------------
pyme/debian/rules        | 50 ++++++----------------------------
pyme/debian/setup.cfg-2.2 |  8 -----
pyme/debian/setup.cfg-2.3 |  8 -----
pyme/debian/setup.cfg-2.4 |  8 -----
pyme/gpgme-h-clean.py    |  2 +-
pyme/pyme/core.py        |  2 +-
pyme/pyme/util.py        |  2 +-
16 files changed, 28 insertions(+), 307 deletions(-)

commit 2b56fd10517cfbcffaa4ba98d8ea42f40f0d38a9
Author: belyi <devnull@localhost>
Date:   Sun Mar 23 02:01:12 2008 +0000

  Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.
  Use new style for class declarations. Specify None as a default value for
  core.check_version() method. Update version.py for 0.8.0 version.

pyme/examples/pygpa.py
 | 2 +-
pyme/gpgme.i             | 5 +++++
pyme/pyme/core.py        | 2 +-
pyme/pyme/util.py        | 5 +++--
pyme/pyme/version.py     | 6 +++---
5 files changed, 13 insertions(+), 7 deletions(-)

commit df5e25d7ee4dc0aa0d429f9d009322dd8ac33bb8
Author: belyi <devnull@localhost>
Date:   Thu Mar 20 19:07:00 2008 +0000

  Improve matching for DEPRECATED typedefs
```

```
pyme/gpgme-h-clean.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 78d8fc732848ac267ec65e9069265cd500587cdf
Author: belyi <devnull@localhost>
Date:   Wed Mar 19 19:28:40 2008 +0000

  Update API to use list when types containing 'next' field are return.
  Update examples accordingly
  Add verifydetails.py example
  Start adding bullets for 0.8.0 version.

pyme/Makefile                 |  2 +-
pyme/debian/changelog         | 14 +++++++-
pyme/examples/PyGtkGpgKeys.py | 53 ++++++++++++++++++++--------------
pyme/examples/delkey.py       |  7 ++--
pyme/examples/encrypt-to-all.py |  7 ++--
 pyme/examples/exportimport.py |  7 ++--
pyme/examples/pygpa.py        | 70 ++++++++++++++++++++
```

```
pyme-web/doc/pyme/pyme.constants.validity.html      | 2 +-
pyme-web/doc/pyme/pyme.core.html                    | 2 +-
pyme-web/doc/pyme/pyme.errors.html                  | 2 +-
pyme-web/doc/pyme/pyme.html                         | 2 +-
pyme-web/doc/pyme/pyme.util.html                    | 2 +-
pyme-web/doc/pyme/pyme.version.html                 | 2 +-
22 files changed, 22 insertions(+), 22 deletions(-)

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803
Author: belyi
 <devnull@localhost>
Date:   Sat Mar 8 18:21:08 2008 +0000

   Add core.check_version(None) to all examples since this function is used by
   Gpgme to do internal initialization. Update debian/rules to use dh_pysupport
   instead of deprecated dh_python.

pyme/debian/rules               | 8 +++-----
pyme/examples/PyGtkGpgKeys.py   | 7 ++++++-
pyme/examples/delkey.py         | 2 ++
pyme/examples/encrypt-to-all.py | 3 +++
pyme/examples/exportimport.py   | 2 ++
pyme/examples/genkey.py         | 1 +
pyme/examples/inter-edit.py     | 3 +++
pyme/examples/pygpa.py          | 5 +++++
pyme/examples/sign.py           | 2 ++
pyme/examples/signverify.py     | 2 ++
pyme/examples/simple.py         | 2 ++
pyme/examples/t-edit.py         | 3 +++
12 files changed, 34 insertions(+), 6 deletions(-)

commit ae76c6176457dd38e0634cbc17d794294a3a81d2
Author: belyi <devnull@localhost>
Date:   Wed Apr 12 22:20:38 2006 +0000

   Change name of internal package name from 'gpgme' to 'pygpgme' to avoid
    conflict with gpgme.dll on Windows.
   Fix build with SWIG 1.3.28.
   Change version to 0.7.1 in a preparation for new release.

pyme/Makefile         |   3 +-
pyme/debian/changelog |  12 ++++
pyme/gpgme.i          |  19 +++---
pyme/pyme/callbacks.py |   1 -
pyme/pyme/core.py     | 153 ++++++
```

```
pyme/setup.py          |   4 +-
9 files changed, 116 insertions(+), 100 deletions(-)

commit d644383a76e9f83bc2d426628319e3c4a989dc2d
Author: belyi <devnull@localhost>
Date:   Sat Dec 17 01:34:53 2005 +0000

  Put all constants into pyme.constants package to avoid stepping on python
  reserved words.
  Add build rules for Mingw32 and Cygwin on Windows. Rules for Mingw under
  Debian are still to come.
  Fixed a small bug in pygpa.py example.

pyme/Makefile                  | 11 ++++++++---
pyme/examples/pygpa.py
  |  3 ++-
pyme/pyme/__init__.py          |  2 +-
pyme/pyme/constants/__init__.py |  3 +++
pyme/setup.py                  | 42 +++++++++++++++++++++++++++++++++++++++++++++-----
5 files changed, 51 insertions(+), 10 deletions(-)

commit 89eb370fcaa8adc9d219eadbaa579dde7bf06329
Author: belyi <devnull@localhost>
Date:   Mon Aug 1 03:08:32 2005 +0000

  Imported changes provided by Joost van Baal:
  Use dh_python in debian/rules and change the Section pyme belongs to from
  'libs' to 'python'.

pyme/debian/control | 6 +++---
pyme/debian/rules   | 2 ++
2 files changed, 5 insertions(+), 3 deletions(-)

commit ad76d10c2a77b45b7459c62131279e946b860891
Author: belyi <devnull@localhost>
Date:   Fri Jun 10 03:01:22 2005 +0000

  Update 'docs' rule in Makefile to build packages first to ensure that
  documentation is build for the current version of pyme and not for the
  installed one.

  Added 'callbacks' into the list of visible pyme modules (__all__ var.)

  Slightly updated INSTALL
 file.

pyme/INSTALL         | 11 ++++++++---
pyme/Makefile        |  4 ++--
```

```
pyme/pyme/__init__.py |  2 +-
3 files changed, 11 insertions(+), 6 deletions(-)

commit 2fe1a81e00721698bfa6850b3db2eb85e43d1724
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 16:16:18 2005 +0000

  Update pyme documentation to remove dead links to pyme.gpgme.html and
  pyme._gpgme.html
  Added reference to the installed GPGME and PyMe documentation to the head
  web page.
  Updated Makefile to install all *.html files and to clean *~ files in all
  subdirectories

pyme-web/Makefile                  | 10 ++++++----
pyme-web/doc/pyme/index.html       |  8 +++-----
pyme-web/doc/pyme/pyme.callbacks.html |  8 --------
pyme-web/doc/pyme/pyme.core.html   |  1 -
pyme-web/doc/pyme/pyme.errors.html |  8 --------
pyme-web/doc/pyme/pyme.html        |  8 +++-----
pyme-web/doc/pyme/pyme.util.html   |  8 --------
pyme-web/index.html                |  9 +++++++--
8 files
 changed, 19 insertions(+), 41 deletions(-)

commit 6aa34cce4ea0099e50b4936dfee59778157b8ca8
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 15:18:20 2005 +0000

  Added pyme and gpgme documentation.

pyme-web/doc/gpgme/gpgme.html      | 251 ++++++++
pyme-web/doc/gpgme/gpgme_1.html    |  76 +++
pyme-web/doc/gpgme/gpgme_10.html   |  61 ++
pyme-web/doc/gpgme/gpgme_11.html   | 130 ++++
pyme-web/doc/gpgme/gpgme_12.html   |  82 +++
pyme-web/doc/gpgme/gpgme_13.html   | 130 ++++
pyme-web/doc/gpgme/gpgme_14.html   | 108 ++++
pyme-web/doc/gpgme/gpgme_15.html   |  69 +++
pyme-web/doc/gpgme/gpgme_16.html   | 169 +++++
pyme-web/doc/gpgme/gpgme_17.html   |  63 ++
pyme-web/doc/gpgme/gpgme_18.html   |  63 ++
pyme-web/doc/gpgme/gpgme_19.html   |  66 ++
pyme-web/doc/gpgme/gpgme_2.html
           |  79 +++
pyme-web/doc/gpgme/gpgme_20.html   | 120 ++++
pyme-web/doc/gpgme/gpgme_21.html   | 102 +++
pyme-web/doc/gpgme/gpgme_22.html   | 108 ++++
```

```
pyme-web/doc/gpgme/gpgme_23.html            | 237 +++++++
pyme-web/doc/gpgme/gpgme_24.html            | 154 +++++
pyme-web/doc/gpgme/gpgme_25.html            | 248 ++++++++
pyme-web/doc/gpgme/gpgme_26.html            | 107 ++++
pyme-web/doc/gpgme/gpgme_27.html            |  80 +++
pyme-web/doc/gpgme/gpgme_28.html            |  67 ++
pyme-web/doc/gpgme/gpgme_29.html            | 164 +++++
pyme-web/doc/gpgme/gpgme_3.html             |  86 +++
pyme-web/doc/gpgme/gpgme_30.html            | 106 ++++
pyme-web/doc/gpgme/gpgme_31.html            | 232 +++++++
pyme-web/doc/gpgme/gpgme_32.html            |  85 +++
pyme-web/doc/gpgme/gpgme_33.html            | 223 +++++++
pyme-web/doc/gpgme/gpgme_34.html
              |  83 +++
pyme-web/doc/gpgme/gpgme_35.html            |  70 +++
pyme-web/doc/gpgme/gpgme_36.html            |  63 ++
pyme-web/doc/gpgme/gpgme_37.html            |  66 ++
pyme-web/doc/gpgme/gpgme_38.html            |  86 +++
pyme-web/doc/gpgme/gpgme_39.html            |  79 +++
pyme-web/doc/gpgme/gpgme_4.html             |  83 +++
pyme-web/doc/gpgme/gpgme_40.html            |  89 +++
pyme-web/doc/gpgme/gpgme_41.html            |  99 +++
pyme-web/doc/gpgme/gpgme_42.html            | 144 +++++
pyme-web/doc/gpgme/gpgme_43.html            | 152 +++++
pyme-web/doc/gpgme/gpgme_44.html            | 112 ++++
pyme-web/doc/gpgme/gpgme_45.html            | 101 +++
pyme-web/doc/gpgme/gpgme_46.html            | 459 ++++++++++++++
pyme-web/doc/gpgme/gpgme_47.html            | 292 +++++++++
pyme-web/doc/gpgme/gpgme_48.html            | 363 ++++++++++
pyme-web/doc/gpgme/gpgme_49.html
              | 209 +++++++
pyme-web/doc/gpgme/gpgme_5.html             |  74 +++
pyme-web/doc/gpgme/gpgme_50.html            |  88 +++
pyme-web/doc/gpgme/gpgme_51.html            | 208 +++++++
pyme-web/doc/gpgme/gpgme_52.html            | 154 +++++
pyme-web/doc/gpgme/gpgme_53.html            | 291 +++++++++
pyme-web/doc/gpgme/gpgme_54.html            |  91 +++
pyme-web/doc/gpgme/gpgme_55.html            | 107 ++++
pyme-web/doc/gpgme/gpgme_56.html            | 140 +++++
pyme-web/doc/gpgme/gpgme_57.html            | 106 ++++
pyme-web/doc/gpgme/gpgme_58.html            |  89 +++
pyme-web/doc/gpgme/gpgme_59.html            |  97 +++
pyme-web/doc/gpgme/gpgme_6.html             |  77 +++
pyme-web/doc/gpgme/gpgme_60.html            | 142 +++++
pyme-web/doc/gpgme/gpgme_61.html            | 626 ++++++++++++++++++++
pyme-web/doc/gpgme/gpgme_62.html
              | 107 ++++
pyme-web/doc/gpgme/gpgme_63.html            |  67 ++
```

pyme-web/doc/gpgme/gpgme_64.html | 95 +++
pyme-web/doc/gpgme/gpgme_65.html | 233 +++++++
pyme-web/doc/gpgme/gpgme_66.html | 65 ++
pyme-web/doc/gpgme/gpgme_67.html | 220 +++++++
pyme-web/doc/gpgme/gpgme_68.html | 75 +++
pyme-web/doc/gpgme/gpgme_69.html | 119 ++++
pyme-web/doc/gpgme/gpgme_7.html | 123 ++++
pyme-web/doc/gpgme/gpgme_70.html | 107 ++++
pyme-web/doc/gpgme/gpgme_71.html | 218 +++++++
pyme-web/doc/gpgme/gpgme_72.html | 134 ++++
pyme-web/doc/gpgme/gpgme_73.html | 299 +++++++++
pyme-web/doc/gpgme/gpgme_74.html | 103 ++++
pyme-web/doc/gpgme/gpgme_75.html | 104 ++++
pyme-web/doc/gpgme/gpgme_76.html | 118 ++++
pyme-web/doc/gpgme/gpgme_77.html
| 95 +++
pyme-web/doc/gpgme/gpgme_78.html | 71 +++
pyme-web/doc/gpgme/gpgme_79.html | 686 ++++++++++++++++++++
pyme-web/doc/gpgme/gpgme_8.html | 155 +++++
pyme-web/doc/gpgme/gpgme_80.html | 120 ++++
pyme-web/doc/gpgme/gpgme_81.html | 278 +++++++++
pyme-web/doc/gpgme/gpgme_82.html | 272 ++++++++
pyme-web/doc/gpgme/gpgme_83.html | 180 ++++++
pyme-web/doc/gpgme/gpgme_84.html | 99 +++
pyme-web/doc/gpgme/gpgme_9.html | 104 ++++
pyme-web/doc/gpgme/gpgme_abt.html | 206 +++++++
pyme-web/doc/gpgme/gpgme_fot.html | 53 ++
pyme-web/doc/gpgme/gpgme_ovr.html | 68 ++
pyme-web/doc/gpgme/gpgme_toc.html | 247 ++++++++
pyme-web/doc/gpgme/index.html | 251 ++++++++
pyme-web/doc/pyme/index.html
| 166 +++++
pyme-web/doc/pyme/pyme.callbacks.html | 50 ++
.../doc/pyme/pyme.constants.data.encoding.html | 48 ++
pyme-web/doc/pyme/pyme.constants.data.html | 29 +
pyme-web/doc/pyme/pyme.constants.event.html | 48 ++
pyme-web/doc/pyme/pyme.constants.html | 39 ++
pyme-web/doc/pyme/pyme.constants.import.html | 49 ++
pyme-web/doc/pyme/pyme.constants.keylist.html | 29 +
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 48 ++
pyme-web/doc/pyme/pyme.constants.md.html | 58 ++
pyme-web/doc/pyme/pyme.constants.pk.html | 50 ++
pyme-web/doc/pyme/pyme.constants.protocol.html | 46 ++
pyme-web/doc/pyme/pyme.constants.sig.html | 29 +
pyme-web/doc/pyme/pyme.constants.sig.mode.html | 47 ++
pyme-web/doc/pyme/pyme.constants.sigsum.html | 55 ++
pyme-web/doc/pyme/pyme.constants.status.html | 117 ++++
pyme-web/doc/pyme/pyme.constants.validity.html | 50 ++

```
pyme-web/doc/pyme/pyme.core.html
                | 254 ++++++++
pyme-web/doc/pyme/pyme.errors.html               |  90 +++
pyme-web/doc/pyme/pyme.html                      | 166 +++++
pyme-web/doc/pyme/pyme.util.html                 |  78 +++
pyme-web/doc/pyme/pyme.version.html              |  37 ++
pyme-web/index.html                              |   6 +-
113 files changed, 14966 insertions(+), 1 deletion(-)

commit 2d6fe54479f042644f7b0f3d2fe35877d2056144
Author: belyi <devnull@localhost>
Date:   Thu May 19 02:06:09 2005 +0000

  Added INSTALL file.

pyme/INSTALL | 10 ++++++++++
1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bc039c
Author: belyi <devnull@localhost>
Date:   Tue May 17 16:49:28 2005 +0000

  Update copyright note on simple.py

pyme/examples/simple.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit c2cd9cdf5995843aad7b200b929db2969effc9d2
Author: belyi <devnull@localhost>
Date:   Tue May 17 15:03:58 2005
 +0000

  Update simple.py to catch errors.

pyme/examples/simple.py | 17 ++++++++++------
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44
Author: belyi <devnull@localhost>
Date:   Tue May 17 01:18:23 2005 +0000

  Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile              | 1 +
pyme/examples/signverify.py | 1 +
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198
```

Author: belyi <devnull@localhost>
Date: Wed Apr 27 21:37:06 2005 +0000

  Added pygpa example.

pyme/debian/changelog | 3 +-
pyme/examples/pygpa.glade | 5546 ++
pyme/examples/pygpa.py | 1459 ++++++++++++
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35
Author: belyi <devnull@localhost>
Date: Thu Apr 21 15:17:51 2005 +0000

  Change version to 0.7.0 due to the change in license.

pyme/debian/changelog
 | 2 +-
pyme/pyme/version.py | 2 +-
2 files changed, 2 insertions(+), 2 deletions(-)

commit 94e34e38d742f145385bd235825b6ba1e30d8339
Author: belyi <devnull@localhost>
Date: Thu Apr 21 03:53:12 2005 +0000

  Changed license on PyMe from GPL to LGPL.
  PyMe examples keep GPL license.

pyme/COPYING.LESSER | 510 ++
pyme/Makefile | 20 +-
pyme/debian/changelog | 4 +-
pyme/debian/copyright | 22 +-
pyme/gpgme-h-clean.py | 16 ++
pyme/gpgme.i | 20 +-
pyme/helpers.c | 20 +-
pyme/helpers.h | 20 +-
pyme/pyme/__init__.py | 20 +-
pyme/pyme/callbacks.py | 20 +-
pyme/pyme/constants/data/encoding.py | 20 +-
pyme/pyme/constants/event.py | 20 +-
pyme/pyme/constants/import.py | 20 +-
pyme/pyme/constants/keylist/mode.py | 20 +-
pyme/pyme/constants/md.py
          | 20 +-
pyme/pyme/constants/pk.py | 20 +-
pyme/pyme/constants/protocol.py | 20 +-
pyme/pyme/constants/sig/mode.py | 20 +-
pyme/pyme/constants/sigsum.py | 20 +-

```
pyme/pyme/constants/status.py       |  20 +-
pyme/pyme/constants/validity.py     |  20 +-
pyme/pyme/core.py                   |  20 +-
pyme/pyme/errors.py                 |  20 +-
pyme/pyme/util.py                   |  20 +-
pyme/pyme/version.py                |  22 +-
pyme/setup.py                       |  20 +-
26 files changed, 761 insertions(+), 233 deletions(-)

commit 0d8aa0f6335cb1506a37085095ed45173b099a02
Author: belyi <devnull@localhost>
Date:   Tue Apr 19 01:46:06 2005 +0000

  Added __hash__ and __eq__ methods to GpgmeWrapper to allow both Context()
  and Data() to be used as a dictionary key.
  Changed core.wait() function to always return a tuple. On timeout now it
  returns (0, None) instead of just None. Plus, return context is
 now a
  Context() object instead of a wrapper return by underlying gpgme.

pyme/helpers.c    |  1 -
pyme/pyme/core.py | 25 +++++++++++++++++----------
pyme/pyme/util.py |  9 +++++++++
3 files changed, 24 insertions(+), 11 deletions(-)

commit 63ff6d10637be1dcbcd78c939ac1ef1ac30b1024
Author: belyi <devnull@localhost>
Date:   Wed Apr 6 04:58:40 2005 +0000

  Made hook parameter optional in passphrase_cb and progress_cb.
  Allowed None for callbacks to unset ones set previously.
  Removed cleanup of exception in callbacks - now just retrieve the error code.
  Added prev_bad parameter in passphrase_cb since it can be used in
  change password protocols.
  Updated examples to follow new sets of arguments in callbacks
  Updated op_edit to check if passed key is None (otherwise gpgme dumps core)
  God rid of annoying warning "function declaration isn't a prototype" in
  helpers.c and helpers.h by changing from () to (void) list of arguments.

pyme/debian/changelog
  | 10 +++++---
pyme/examples/signverify.py |  2 +-
pyme/examples/t-edit.py     |  2 +-
pyme/gpgme.i                | 18 +++++++++-----
pyme/helpers.c              | 60 ++++++++++++++++
```

```
pyme/pyme/errors.py         |  2 +-
9 files changed, 96 insertions(+), 55 deletions(-)

commit 8f0ab8138c7aa190936376ccbbf33bb09c64d6f1
Author: belyi <devnull@localhost>
Date:   Thu Mar 31 23:50:59 2005 +0000

    Added exception handling in passphrase_cb and edit_cb. If GPGMEError
    exception is thrown in those callbacks it will be converted into its
    core representation and return as an error code to the caller.
    On all other exceptions error code will be GPG_ERR_GENERAL.

pyme/Makefile         |  1 +
pyme/debian/changelog |  8 ++++++++
pyme/gpgme.i          | 20 ++++++++++++++------
pyme/helpers.c        | 51
 ++++++++++++++++++++++++++++++++++++++++++++++++++------
pyme/helpers.h        |  3 +++
5 files changed, 71 insertions(+), 12 deletions(-)

commit 9903d1fb11231e7e3d920e58d1ecb674c5988b07
Author: belyi <devnull@localhost>
Date:   Thu Mar 31 05:12:15 2005 +0000

    Remove workaround from Context.wait() method since the bug report and
    patch fixing gpgme_wait's behavior is sent to GPMGE developers already.
    Added errorcheck into op_edit() so that it can report an error.

pyme/pyme/core.py | 10 +++++-----
1 file changed, 5 insertions(+), 5 deletions(-)

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562
Author: belyi <devnull@localhost>
Date:   Sat Mar 26 19:44:18 2005 +0000

    Updated version number to 0.6.2 in version.py
    Added examples/*.glade files into documentation package.

pyme/debian/examples | 1 +
pyme/pyme/version.py | 2 +-
2 files changed, 2 insertions(+), 1 deletion(-)

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab
Author: belyi <devnull@localhost>
Date:   Sat Mar
 26 19:31:14 2005 +0000

    Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.
```

pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174ffd038fe7e4406b591
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:25:36 2005 +0000

  Added handling of right mouse button click.
  Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++
pyme/examples/PyGtkGpgKeys.py | 30 ++++++++++++++++++++++++++++---
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204fb8527a54d253e5847e7
Author: belyi <devnull@localhost>
Date: Sat Mar 26 18:11:11 2005 +0000

  Added another column indicating if a key has a secret part.
  Automated generation of the View menu from the view field of the KeyColumn
  class.

pyme/examples/PyGtkGpgKeys.glade | 93 ++-----------------------------------
pyme/examples/PyGtkGpgKeys.py | 74
 ++++++++++++++++++---------------
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a
Author: belyi <devnull@localhost>
Date: Sat Mar 26 16:45:13 2005 +0000

  Small change to the way gtk.TreeModel object is used.

pyme/examples/PyGtkGpgKeys.py | 21 ++++++++++-----------
1 file changed, 10 insertions(+), 11 deletions(-)

commit 7078db75cef4c1fd70cf03e37172bdb4f933fd1b
Author: belyi <devnull@localhost>
Date: Fri Mar 25 23:33:06 2005 +0000

  Use more comprehansible error reporting since gpgme_strerror_r returns None
  all the time.

pyme/pyme/errors.py | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 151213f4344d9984975721440af07de09e3df61c

Author: belyi <devnull@localhost>
Date: Fri Mar 25 04:30:17 2005 +0000

  Improved PyGtkGpgKeys example to manage owner_trust on keys.
  Added another example inter-edit.py which is just a helper to write
  scripts for Context.op_edit() command.

pyme/examples/PyGtkGpgKeys.glade
 | 78 ++
pyme/examples/PyGtkGpgKeys.py | 68 +++++++++++++++++++++++++++++++----
pyme/examples/inter-edit.py | 54 ++++++++++++++++++++++++++++
pyme/examples/t-edit.py | 18 ++++++++++
4 files changed, 212 insertions(+), 6 deletions(-)

commit fc7235af217bcee5231ce7fbd7f234712d5ad3b0
Author: belyi <devnull@localhost>
Date: Fri Mar 25 00:30:39 2005 +0000

  Updated PyGtkGpgKeys example to include import, export and reload
  functionality. Also added ability to remove number of keys simultaneously.
  Rearanged how KeyColumn is used to avoid unnecessary sorts and duplication
  of information in different parts of the code.

pyme/examples/PyGtkGpgKeys.glade | 86 +++++++++-
pyme/examples/PyGtkGpgKeys.py | 332 ++++++++++++++++++++++++++++++++++++++

```
pyme/gpgme.i         |  1 +
pyme/pyme/core.py    | 40 ++++++++++++++++++++++++++++++++++++++++
3 files changed, 48 insertions(+)

commit 4c1b5259e4985df2cba0ae4fc09f12cd94603a75
Author: belyi <devnull@localhost>
Date:   Tue Mar 22 18:29:31 2005 +0000

  Added correct handling of Context.op_edit() method.
  Added example/t-edit.py showing
 usage for this method.
  Output of this example should match output of the  tests/gpg/t-edit
  from the GPGME test suite.
  Remove unused static function from helpers.c

pyme/examples/t-edit.py | 38 ++++++++++++++++++++++++++++++++++++
pyme/gpgme.i            | 36 ++++++++++++++++++++++++++++++++++
pyme/helpers.c          | 36 ------------------------------------
pyme/pyme/core.py       |  5 ++++-
4 files changed, 78 insertions(+), 37 deletions(-)

commit dc587e215283bfef2dd594f86a7b2945f74f5155
Author: belyi <devnull@localhost>
Date:   Sat Mar 19 01:43:59 2005 +0000

  Update changelog to include note about deprecated function in 0.6.1 release

pyme/debian/changelog           | 3 ++-
pyme/examples/encrypt-to-all.py | 3 +--
2 files changed, 3 insertions(+), 3 deletions(-)

commit 86de4b3ad777f980ccf7ba3462c85bbe1787d1fd
Author: belyi <devnull@localhost>
Date:   Sat Mar 19 01:40:07 2005 +0000

  Remove deprecated functions from helpers.[ch]
  Use gpgme-h-clean.py
 to remove deprecated functions and typedefs from
  the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile         |  4 ++--
pyme/gpgme-h-clean.py | 26 ++++++++++++++++++++++++++
pyme/helpers.c        |  8 --------
pyme/helpers.h        |  2 --
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcbd0d73c628c4d7717928a766c3b58f0aa
Author: belyi <devnull@localhost>
```

Date: Fri Mar 18 22:15:52 2005 +0000

  Update copyright and author values in pyme/version.py
  Create rules to build distribution files - one full and one without
  debian bits.

pyme/Makefile | 28 ++++++++++++++++++++++------
pyme/pyme/version.py | 12 ++++++------
2 files changed, 28 insertions(+), 12 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621
Author: belyi <devnull@localhost>
Date: Fri Mar 18 19:09:33 2005 +0000

  Added package building for python2.4

  Updated copyright notes to include myself and avoid confusion who's the
  maintainer.
 In John's own words: "I'd prefer to just step out of the picture".
  Jonh's copyright notice left intact.

pyme/Makefile | 6 +++---
pyme/debian/changelog | 7 +++++++
pyme/debian/control | 30 ++++++++++++++++++++++++++++++---
pyme/debian/copyright | 10 ++++++------
pyme/debian/rules | 4 ++++
pyme/debian/setup.cfg-2.4 | 8 ++++++++
pyme/examples/genkey.py | 4 ++--
pyme/gpgme.i | 4 ++--
pyme/helpers.c | 4 ++--
pyme/helpers.h | 4 ++--
pyme/pyme/__init__.py | 4 ++--
pyme/pyme/callbacks.py | 4 ++--
pyme/pyme/constants/data/encoding.py | 4 ++--
pyme/pyme/constants/event.py | 4 ++--
pyme/pyme/constants/import.py | 4 ++--
pyme/pyme/constants/keylist/mode.py | 4 ++--
pyme/pyme/constants/md.py | 4 ++--
pyme/pyme/constants/pk.py
        | 4 ++--
pyme/pyme/constants/protocol.py | 4 ++--
pyme/pyme/constants/sig/mode.py | 4 ++--
pyme/pyme/constants/sigsum.py | 4 ++--
pyme/pyme/constants/status.py | 4 ++--
pyme/pyme/constants/validity.py | 4 ++--
pyme/pyme/core.py | 4 ++--
pyme/pyme/errors.py | 4 ++--
pyme/pyme/util.py | 4 ++--

```
pyme/pyme/version.py               |  2 +-
pyme/setup.py                      |  3 ++-
28 files changed, 96 insertions(+), 54 deletions(-)

commit 6dbbb252771133724b2879ed6d767cd708196dae
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 18:04:35 2005 +0000

    Remove the note about gpgme.i to be generated - it's been the primary source
    for some time.

pyme/gpgme.i | 6 ------
1 file changed, 6 deletions(-)

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759
Author: belyi <devnull@localhost>
Date:   Fri May 7 18:31:22 2004 +0000

    Added my copyright in genkey.py since there's
  enough changes made.
    Updated signverify to use only keys generated by genkey.py, to check
      that keys added to singers are able to sign and to check that the
      list of signers is not empty. The last check is necessary to prevent
      signing with the key of the user running signverify.py script.
    Added delkey.py script to delete keys generated by genkey.py
    Added exportimport.py example for key export/import.

pyme/examples/delkey.py       | 29 ++++++++++++++++++
pyme/examples/exportimport.py | 76 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/genkey.py       |  6 ++--
pyme/examples/signverify.py   | 18 ++++++----
4 files changed, 119 insertions(+), 10 deletions(-)

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b
Author: belyi <devnull@localhost>
Date:   Tue May 4 17:34:15 2004 +0000

    Added examples/signverify.py for unattended sing/verify.
    Updated examples/genkey.py to work correctly.
    Updated gpgme.i to allow None as a value for gpgme_data_t

  pyme/examples/genkey.py     | 14 ++-------
pyme/examples/signverify.py | 72 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i                | 21 ++++++++-----
3 files changed, 87 insertions(+), 20 deletions(-)

commit ba45931abf530ab89ead46d7233ff1b62b629a18
Author: belyi <devnull@localhost>
```

Date: Thu Apr 8 16:15:09 2004 +0000

  Ensure that we support only python2.2 and up. :-)
  Use generators in core.Context class which makes pyme.aux obsolete
  Remove importing future nested_scopes since they are standard starting
  with python2.2

pyme/pyme/__init__.py | 5 ++---
pyme/pyme/aux.py | 56 --
pyme/pyme/core.py | 15 ++++++++++---
pyme/pyme/errors.py | 1 -
pyme/pyme/util.py | 2 +-
5 files changed, 15 insertions(+), 64 deletions(-)

commit 4e9be5a55ecffa4da7ad5c192cc892eddaaa9586
Author: belyi <devnull@localhost>
Date: Sun Mar 21 03:53:30 2004 +0000

  Small change to index.html
   Added clean: rule to the Makefile

pyme-web/Makefile | 3 +++
pyme-web/index.html | 6 +++---
2 files changed, 6 insertions(+), 3 deletions(-)

commit 2efb95176f4edf56ed61c9ac0c3aa09c56534df0
Author: belyi <devnull@localhost>
Date: Sun Mar 21 03:00:32 2004 +0000

  Added Makefile rules for pyme module installation.

pyme/Makefile | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit 2b83d5d8b513029cc3e54f2fa502ccc85618104b
Author: belyi <devnull@localhost>
Date: Sun Mar 21 02:29:54 2004 +0000

  Decorative change.

pyme/pyme/aux.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433fce59712204
Author: belyi <devnull@localhost>
Date: Sun Mar 21 02:25:55 2004 +0000

  Added RCS Id: tags

```
pyme/Makefile                        | 1 +
pyme/examples/encrypt-to-all.py      | 3 ++-
pyme/examples/genkey.py              | 3 ++-
pyme/examples/sign.py                | 3 ++-
pyme/examples/simple.py
    | 3 ++-
pyme/gpgme.i                         | 1 +
pyme/helpers.c                       | 1 +
pyme/helpers.h                       | 1 +
pyme/pyme/__init__.py                | 1 +
pyme/pyme/aux.py                     | 1 +
pyme/pyme/callbacks.py               | 1 +
pyme/pyme/constants/__init__.py      | 2 ++
pyme/pyme/constants/data/__init__.py | 2 ++
pyme/pyme/constants/data/encoding.py | 1 +
pyme/pyme/constants/event.py         | 1 +
pyme/pyme/constants/import.py        | 1 +
pyme/pyme/constants/keylist/__init__.py | 2 ++
pyme/pyme/constants/keylist/mode.py  | 1 +
pyme/pyme/constants/md.py            | 1 +
pyme/pyme/constants/pk.py            | 1 +
pyme/pyme/constants/protocol.py      | 1 +
pyme/pyme/constants/sig/__init__.py  | 2 ++
pyme/pyme/constants/sig/mode.py      | 1 +
pyme/pyme/constants/sigsum.py        | 1 +
pyme/pyme/constants/status.py        | 1 +
pyme/pyme/constants/validity.py      | 1
 +
pyme/pyme/core.py                    | 1 +
pyme/pyme/errors.py                  | 1 +
pyme/pyme/util.py                    | 1 +
pyme/pyme/version.py                 | 2 ++
30 files changed, 39 insertions(+), 4 deletions(-)

commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:07:36 2004 +0000

   Added Id: RCS tags to all files.

pyme-web/Makefile   | 2 ++
pyme-web/index.html | 3 ++-
2 files changed, 4 insertions(+), 1 deletion(-)

commit 6aea2426beaaa8c43e6f2310a37a2737c0c3a1b5
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 01:50:55 2004 +0000
```

Update example on the init pyme.html page to match simple.py example.
Fix core.py to use getcode() instead of getvalue() method of the exception.

pyme/pyme/__init__.py | 22 +++++++++++++++--------
pyme/pyme/core.py | 4 ++--
2 files changed, 16 insertions(+), 10 deletions(-)

commit dee337455ffd624d3f83e1c159c4bb2cefc692c9
Author: belyi <devnull@localhost>
Date:
Sat Mar 20 20:32:29 2004 +0000

Added Makefile to simplify publishing web files.

pyme-web/Makefile | 7 +++++++
1 file changed, 7 insertions(+)

commit af7129baa8260697d85c2ddb434562e8a80b62d8
Author: belyi <devnull@localhost>
Date: Sat Mar 20 20:15:53 2004 +0000

Added minimum of formatting and SF icon.

pyme-web/index.html | 18 ++++++++++-------
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcbf99cee796b51667b04d8961e390edde87
Author: belyi <devnull@localhost>
Date: Sat Mar 20 18:30:09 2004 +0000

Initial revision

pyme-web/index.html | 33 +++++++++++++++++++++++++++++++++
1 file changed, 33 insertions(+)

commit 1c51644b3d0b6611422d971758e35f303d2ad5df
Author: belyi <devnull@localhost>
Date: Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.

pyme/pyme/__init__.py | 27 +++++++++++++----------
1 file changed, 12 insertions(+), 15 deletions(-)

commit b2d31b0bfbffdff5247d6db4e3c95140cc1b1f19
Author:

```
 belyi <devnull@localhost>
Date:   Sat Mar 20 04:47:42 2004 +0000

  Deleted unnecessary files.
  Updated debian/control to remove dependency on python-xml package since there's
  none now.
  Move example files from 'doc' into separate control file.
  Update debian/rules to build documentation from *.py files and to exclude
  CVS directories from the installation.

pyme/Makefile                 | 26 ++-----
pyme/debian/control           |  8 +--
pyme/debian/docs              |  1 -
pyme/debian/ex.package.doc-base | 22 ------
pyme/debian/examples          |  1 +
pyme/debian/manpage.1.ex      | 60 ----------------
pyme/debian/manpage.sgml.ex   | 152 ----------------------------------------
pyme/debian/rules             | 12 ++--
8 files changed, 15 insertions(+), 267 deletions(-)

commit 1b517dd9b82a433499b4696b06d94d756cd36e53
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:59:15 2004 +0000

  Remove doc/gpgme
 directory containing GPGME documentation since this belongs
  to a different project. Need to add reference in our documentation.

pyme/doc/gpgme/fdl.texi     | 402 ------
pyme/doc/gpgme/gpgme.texi   | 3372 ----------------------------------------
pyme/doc/gpgme/gpl.texi     | 397 -----
pyme/doc/gpgme/version.texi |   4 -
4 files changed, 4175 deletions(-)

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 02:45:03 2004 +0000

  Change debian/rules to generate files by swig during build and to cleanup
  those files on 'clean' rule.
  Plus, leave generated gpgme_wrap.c in the root directory instead of moving
  it into subdirectory 'generated'.

pyme/Makefile     | 8 +++-----
pyme/debian/rules | 3 ++-
pyme/setup.py     | 2 +-
3 files changed, 6 insertions(+), 7 deletions(-)
```

commit 545b3d90d445c5c78e8d72b2c1780863e02c789a
Author: belyi <devnull@localhost>
Date: Sat Mar 20 02:18:01 2004 +0000

  Initial revision

 pyme/COPYING | 340 ++++
pyme/ChangeLog | 802 ++++++++
pyme/Makefile | 79 +
pyme/debian/README.Debian | 6 +
pyme/debian/changelog | 19 +
pyme/debian/control | 68 +
pyme/debian/copyright | 27 +
pyme/debian/dirs | 2 +
pyme/debian/docs | 2 +
pyme/debian/ex.package.doc-base | 22 +
pyme/debian/manpage.1.ex | 60 +
pyme/debian/manpage.sgml.ex | 152 ++
pyme/debian/postinst.ex | 48 +
pyme/debian/postrm.ex | 38 +
pyme/debian/preinst.ex | 44 +
pyme/debian/prerm.ex | 39 +
pyme/debian/rules | 130 ++
pyme/debian/setup.cfg-2.2 | 8 +
pyme/debian/setup.cfg-2.3 | 8 +
pyme/doc/gpgme/fdl.texi
          | 402 ++++
pyme/doc/gpgme/gpgme.texi | 3372 ++
pyme/doc/gpgme/gpl.texi | 397 ++++
pyme/doc/gpgme/version.texi | 4 +
pyme/examples/encrypt-to-all.py | 63 +
pyme/examples/genkey.py | 55 +
pyme/examples/sign.py | 28 +
pyme/examples/simple.py | 44 +
pyme/gpgme.i | 191 ++
pyme/helpers.c | 139 ++
pyme/helpers.h | 29 +
pyme/pyme/__init__.py | 134 ++
pyme/pyme/aux.py | 55 +
pyme/pyme/callbacks.py | 45 +
pyme/pyme/constants/__init__.py | 2 +
pyme/pyme/constants/data/__init__.py | 2 +
pyme/pyme/constants/data/encoding.py | 19 +
pyme/pyme/constants/event.py | 19 +
pyme/pyme/constants/import.py | 19 +
pyme/pyme/constants/keylist/__init__.py
| 2 +
pyme/pyme/constants/keylist/mode.py | 19 +

```
pyme/pyme/constants/md.py             |  19 +
pyme/pyme/constants/pk.py             |  19 +
pyme/pyme/constants/protocol.py       |  19 +
pyme/pyme/constants/sig/__init__.py   |   2 +
pyme/pyme/constants/sig/mode.py       |  19 +
pyme/pyme/constants/sigsum.py         |  19 +
pyme/pyme/constants/status.py         |  19 +
pyme/pyme/constants/validity.py       |  19 +
pyme/pyme/core.py                     | 367 ++++
pyme/pyme/errors.py                   |  46 +
pyme/pyme/util.py                     |  61 +
pyme/pyme/version.py                  |  39 +
pyme/setup.py                         |  60 +
53 files changed, 7642 insertions(+)

commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d
Author: root <devnull@localhost>
Date:   Fri Mar 19 14:12:30 2004 +0000

  initial checkin

CVSROOT/checkoutlist | 13 ++++++++++++
CVSROOT/commitinfo   | 15 +++++++++++++++
CVSROOT/config
 | 21 +++++++++++++++++++++
CVSROOT/cvswrappers  | 19 +++++++++++++++++++
CVSROOT/editinfo     | 21 +++++++++++++++++++++
CVSROOT/loginfo      | 26 ++++++++++++++++++++++++++
CVSROOT/modules      | 26 ++++++++++++++++++++++++++
CVSROOT/notify       | 12 ++++++++++++
CVSROOT/rcsinfo      | 13 ++++++++++++
CVSROOT/taginfo      | 20 ++++++++++++++++++++
CVSROOT/verifymsg    | 21 +++++++++++++++++++++
11 files changed, 207 insertions(+)
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQENBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLu1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJlO1s0N2c
PShtr98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqpRJhLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAG0EHRlc3RAZXhhbXBsZS5v
cmeJAVQEEwEIAD4WIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbAwUJA8Jn
AAULCQgHAgYVCgkICwIEFgIDAQIeAQIXgAAKCRAjAWNe7/DLBf9kB/wOQ/S60HGw
Fq07W9N01HWULyhHKoMmcHL6rfZ64oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6
kaBe+wF6Kqir6udFSBW9rPcFg6/VZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rN
GkYo1JCBR0XdRJYCSX3yB4TWv/eXnZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k7
0DevQeBsv+UjVXjWpNTZmPbvDnd995uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6U
```

unOf9Rlp1oMzdxMool/d1MlCxg2h3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ
1J8Nsv87SZeEuQENBFrsKEkBCADjoEBhG/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6
yE+x2hk5FoQCajxKa/d4AVxOnJpdwhAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0p
O7bgAiZxkA6RHxtNqhpPnPQoXvUzkzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/
8i9Taz67pdZwuJjac8qBuJHjzAo1bjYctFYUSG5pbmMQyNLySzgiNkFa4DajODlt
3RuqVGP316Fk+Sy2+60tC/HlX8jgMyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyL
UGKU+L8cB2g1PGGp2biBFWqZbudZoyRBet/0yH/zirBdQJw1ABEBAAGJATwEGAEI
ACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAKCRAjAWNe
7/DLBf0pCACPp5hBuUWngu2Hqvg+tNiujfsiYzId3MffFxEk3CbXeHcJ5F32NDJ9
PYCnra4L8wSv+NZt9gIa8lFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7Jq3e/4Iy
0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02Lkr+2Cc/Q
k6H+vlNOHGRgnpI/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe23nntMSD
A+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t9Mmd7bM1
+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
=QyY6
-----END
 PGP PUBLIC KEY BLOCK-----
Using gpgme.js

At first, make sure that the environment you want to use gpgme.js in has access
and permissions for nativeMessaging, and gpgme-json installed. For details,
see the README.

The library itself is started via the {@link init} method. This will test the
nativeMessaging connection, and then resolve into an Object offering
the top level API:

* [encrypt]{@link GpgME#encrypt}
* [decrypt]{@link GpgME#decrypt}
* [sign]{@link GpgME#sign}
* [verify]{@link GpgME#verify}
* [Keyring]{@link GPGME_Keyring}

```
gpgmejs.init()
  .then(function(GPGME) {
    // using GPGME
  }, function(error){
    // error handling;
  })
```

All methods that require communication with nativeMessaging are asynchronous,
using Promises. Rejections will be instances of {@link GPGME_Error}.

An exaeption are Keys, which can be initialized in a 'sync' mode, allowing them
to be cached and used synchronously until manually refreshed.

Keyring and Keys

The gnupg keys
can be accessed via the [Keyring]{@link GPGME_Keyring}.

The Keyring offers the methods for accessing information on all Keys known to gnupg.

Due to security constraints, the javascript-binding currently only offers limited support for secret-Key interaction.

The existence of secret Keys is not secret, and those secret Keys can be used for signing, but Operations that may expose, modify or delete secret Keys are not supported.

* [getKeysArmored]{@link GPGME_Keyring#getKeysArmored}
* [getKeys]{@link GPGME_Keyring#getKeys}
* [getDefaultKey]{@link GPGME_Keyring#getDefaultKey}
* [generateKey]{@link GPGME_Keyring#generateKey}
* [deleteKey]{@link GPGME_Keyring#deleteKey}
\input texinfo   @c -*- texinfo -*-
@c %**start of header
@setfilename what-is-new.info
@settitle What's New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What's New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What's New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What's New::

@detailmenu
--- The Detailed Node Listing ---

What's New

* New in GPGME 1130::

@end detailmenu
@end menu

@node What's New
@chapter What's New

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

Last time the most
 obviously new thing was adding the @emph{What's New}
section to the HOWTO. Now it's moving it out of the HOWTO.

@menu
* New in GPGME 1130::
@end menu

@node New in GPGME 1130
@section New in GPGME 1130

Additions since GPGME 1.12.0 include:

@itemize
@item
Moving the @emph{What's New} section out of the basic @uref{gpgme-python-howto.org, HOWTO} document and
into its own file so as to more readily include other documents
beyond that HOWTO.
@item
Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.
@item
Added @samp{gpg.version.versionintlist} to make it easier for Python
developers to check for a specific version number, even with beta

versions (it will drop the "-betaN" part).
@item
Added expanded detail on issues pertaining to installing for Windows
users.
@item
Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.
@item
Added documentation on maintenance mode and what changes can be made
to the code when in that status. Essentially
 that boils down to bug
fixes only and no feature requests.
@item
The import-keys-hkp.py example script, which uses the @samp{hkp4py}
module to search the SKS servers for a key, has been tightened up to
search for both hexadecimal key IDs and user ID strings with reduced
chance of unnecessary repitition. There may still be some
repetition if a key includes a user ID matching the hexadecimal
value of a key ID.
@end itemize

@bye
;;;; gpgme-grovel.lisp

;;; This file is part of GPGME-CL.
;;;
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;;; under the terms of the GNU General Public License as published by
;;; the Free Software Foundation; either version 2 of the License, or
;;; (at your option) any later version.
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;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

(in-package :gpgme)

(include "errno.h" "sys/types.h")

(constant (+ebadf+ "EBADF"))

(ctype off-t "off_t")

(ctype size-t "size_t")
(ctype ssize-t "ssize_t")

(cvar ("errno" *errno*) :int)
(21:protected-private-key(3:elg(1:p129:W#}}l;;m>
;4YV$Qg
LoLy~*Tru*+ID8"-9,:17^g*({ #7)(1:g1:)(1:y128:2o62,Tj/
rRi3sSS iCAYNYbVtAHKi7(UPp)?Od{'R^f)(9:protected25:openpgp-s2k3-sha1-aes-
cbc((4:sha18:fw`E7:5242880)16:aqR)192:5f1a-`{^EV699WoB\,:Rs1*W6Lu iZ
:=ZqURM47;pA3#DL
so8O)Th^P@lP0&.DR;"rkN7)(12:protected-at15:20101008T070216)))
For a list of the authors of the source code of GPGME, please see the
file AUTHORS. The following people supported GPGME development in
various ways (for example by finding bugs or giving advice), and we
want to thank them for their help. If we forgot you, please let us
know.

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```
# This is a template.  The dist target uses it to create the real file.
Summary: GPGME - GnuPG Made Easy
Name: gpgme
Version: 1.13.1
Release: 1
URL: https://gnupg.org/gpgme.html
Source: https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz
Group: Development/Libraries
Copyright: GPL
BuildRoot: %{_tmppath}/%{name}-%{version}
BuildRequires: make
Prereq: /sbin/ldconfig /sbin/install-info
Requires: gnupg

%description
GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier
for applications. It provides a High-Level Crypto API for encryption,
decryption, signing, signature verification and key management.

%prep
%setup -q

%build
CFLAGS="$RPM_OPT_FLAGS"; export CFLAGS
./configure --prefix=/usr
make

%install
rm -fr $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT
make install prefix=$RPM_BUILD_ROOT/usr infodir=$RPM_BUILD_ROOT%{_infodir}
rm -f $RPM_BUILD_ROOT%{_infodir}/dir

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info %{_infodir}/gpgme.info.gz
 %{_infodir}/dir
/sbin/install-info %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir

%preun
if [ "$1" = 0 ]; then
/sbin/install-info --delete %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info --delete %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir
fi
```

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) %{_bindir}/gpgme-config
%attr(0755,root,root) %{_libdir}/*gpgme.so*
%attr(0755,root,root) %{_libdir}/*gpgme.la
%attr(0644,root,root) %{_libdir}/*gpgme.a
%{_includedir}/gpgme.h
%{_datadir}/aclocal/gpgme.m4
%{_infodir}/gpgme.info*
%{_infodir}/gpgme-python-howto.info*

%changelog
* Sat Aug 30 2003 Robert Schiele <rschiele@uni-mannheim.de>
- %{_infodir}/dir is not packaged, remove to prevent checking failure
* Mon Jul 01 2002 Wojciech Polak <polak@lodz.pdi.net>
- initial specfile release for GPGME.

EOF

1.419 glib 2.56.4-158.el8

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1.423 unzip 6.0-46.el8

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- -

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
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```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
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  *
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```

```
   *         redistribute the source as "DSC Sample Code" after
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   *         redistribute the source, we require that you make
   *         it clear in the source that the code was descended
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```

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```
   *  MacBinaryIII.h
   *
   *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
   *
   *  Basic encoding and decoding of Macintosh files to the
   *  MacBinary III spec.
   * ------------------------------------------------------------------------
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```

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```
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```

Regarding the first stipulation, Mr. Smith was tracked down in southern
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default
no longer contains any of Mr. Smith's code, Info-ZIP
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 Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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 Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
 Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
 DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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  The decompression core code for the deflate method (inflate.[ch],
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 as public domain code.

---------------------------------------------------------------------------
```

1.424 json-c 0.13.1-3.el8

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```
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1.425 libcap 2.48-2.el8

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derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of

the
Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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

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

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
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the Library at all. For example, if a patent
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all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

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

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

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

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

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

but may differ in detail to address new problems or concerns.

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

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

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

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SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

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

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

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

That's all there is to it!
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License

@c man begin SEEALSO
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@end ignore
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@heading Preamble

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software and other kinds of works.

The
 licenses for most software and other practical works are designed
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the GNU General Public License is intended to guarantee your freedom
to share and change all versions of a program---to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the GNU General Public License for most of our software; it
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When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

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

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

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

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

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

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

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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

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

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

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

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

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

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

@item Source Code.

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

of a work.

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

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context,
means a major essential component
(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

@item Basic Permissions.

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

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

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

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

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

@item Conveying Verbatim Copies.

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

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

@item

Conveying Modified Source Versions.

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

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

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

@item
You must license the entire work, as a whole, under this License to
anyone who comes into possession of a copy. This License will
therefore apply, along with any applicable section 7 additional terms,
to the whole of the work, and all its parts, regardless of how they
are packaged. This License gives no permission to license the work in
any other way, but it does not invalidate such permission if
you have
separately received it.

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

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

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of

sections 4 and 5, provided that you also convey
the machine-readable
Corresponding Source under the terms of this License, in one of these
ways:

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

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

@item
Convey individual copies of the object code with a copy of the written
offer to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

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

@item

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

@end enumerate

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

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of
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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
```

*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
*   2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*   details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
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        Version 2, June 1991

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1.435 jjwt-jackson 0.11.5

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Found in path(s):
* /jjwt-jackson-0-11-5-jar/META-INF/maven/io.jsonwebtoken/jjwt-jackson/pom.xml
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Manifest-Version: 1.0
Export-Package: io.jsonwebtoken.jackson.io;uses:="com.fasterxml.jackso
n.core,com.fasterxml.jackson.databind,io.jsonwebtoken.io";version="0.
11.5"
Implementation-Title: JJWT :: Extensions :: Jackson
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor: jsonwebtoken.io
Fragment-Host: io.jsonwebtoken.jjwt-api
Implementation-Vendor-Id: io.jsonwebtoken
Specification-Title: JJWT :: Extensions :: Jackson
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.jsonwebtoken.jjwt-jackson
Implementation-Version: 0.11.5
Specification-Vendor: jsonwebtoken.io
Bundle-Name: JJWT :: Extensions :: Jackson
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwtk/jjwt/jjwt-jackson
Bundle-Vendor: jsonwebtoken.io
Build-Jdk-Spec: 1.7
Bundle-Version: 0.11.5
Build-Jdk: 1.7.0_342
Bnd-LastModified:

1651162720919
Bundle-ManifestVersion: 2
Bundle-Description: JSON Web Token support for the JVM and Android
Import-Package: com.fasterxml.jackson.core;version="[2.12,3)",com.fast
erxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.datab
ind.deser.std;version="[2.12,3)",com.fasterxml.jackson.databind.modul
e;version="[2.12,3)",io.jsonwebtoken.io;version="[0.11,1)",io.jsonweb
token.lang;version="[0.11,1)"
Bundle-DocURL: https://github.com/jwtk/jjwt
Specification-Version: 0.11.5

Found in path(s):
* /jjwt-jackson-0-11-5-jar/META-INF/MANIFEST.MF

1.436 jjwt-impl 0.11.5

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Manifest-Version: 1.0
Implementation-Title: JJWT :: Impl
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor: jsonwebtoken.io
Fragment-Host: io.jsonwebtoken.jjwt-api
Implementation-Vendor-Id: io.jsonwebtoken
Specification-Title: JJWT :: Impl
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.jsonwebtoken.jjwt-impl
Implementation-Version: 0.11.5
Specification-Vendor: jsonwebtoken.io
Bundle-Name: JJWT :: Impl
Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwtk/jjwt/jjwt-impl
Bundle-Vendor: jsonwebtoken.io
Build-Jdk-Spec: 1.7
Build-Jdk: 1.7.0_342
Bundle-Version: 0.11.5
Bnd-LastModified: 1651162736497
Bundle-ManifestVersion: 2
Bundle-Description: JSON Web Token support for the JVM and Android
Bundle-DocURL: https://github.com/jwtk/jjwt
Specification-Version: 0.11.5
Import-Package:
io.jsonwebtoken;version="[0.11,1)",io.jsonwebtoken.io;
version="[0.11,1)",io.jsonwebtoken.lang;version="[0.11,1)",io.jsonweb

token.security;version="[0.11,1)",javax.crypto,javax.crypto.spec

Found in path(s):
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Found in path(s):
* /jjwt-impl-0-11-5-jar/META-INF/maven/io.jsonwebtoken/jjwt-impl/pom.xml

1.437 jjwt-api 0.11.5

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Manifest-Version: 1.0
Export-Package: io.jsonwebtoken;uses:="io.jsonwebtoken.io,io.jsonwebto
ken.security";version="0.11.5",io.jsonwebtoken.security;uses:="io.jso
nwebtoken,javax.crypto";version="0.11.5",io.jsonwebtoken.io;uses:="io
.jsonwebtoken";version="0.11.5",io.jsonwebtoken.lang;version="0.11.5"
Implementation-Title: JJWT :: API
Built-By: lhazlewood
Tool: Bnd-3.3.0.201609221906
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Implementation-Vendor: jsonwebtoken.io
Implementation-Vendor-Id: io.jsonwebtoken
Specification-Title: JJWT :: API
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.jsonwebtoken.jjwt-api
Implementation-Version: 0.11.5
Specification-Vendor: jsonwebtoken.io
Bundle-Name: JJWT :: API

Created-By: Apache Maven Bundle Plugin
Implementation-URL: https://github.com/jwtk/jjwt/jjwt-api
Bundle-Vendor: jsonwebtoken.io
Build-Jdk-Spec: 1.7
Build-Jdk:
1.7.0_342
Bundle-Version: 0.11.5
Bnd-LastModified: 1651162710318
Bundle-ManifestVersion: 2
Bundle-Description: JSON Web Token support for the JVM and Android
Bundle-DocURL: https://github.com/jwtk/jjwt
Specification-Version: 0.11.5
Import-Package: io.jsonwebtoken,io.jsonwebtoken.io,io.jsonwebtoken.lan
g,io.jsonwebtoken.security,javax.crypto,javax.crypto.spec

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1.438 libdnf 0.63.0-8.el8

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1.444 e2fsprogs 1.45.6-4.el8

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

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

```
image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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    ** NOTE! The following LGPL license applies to the tdb
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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

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

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

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

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1.446 rpm 4.14.3-23.el8

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1.447 dnf-plugins-core 4.0.21-11.el8

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

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will operate
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1.451 tomcat 9.0.63

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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
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- web-app_3_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
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Digits.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Min.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/package-info.java
*
 /jakarta-validation-api-3-0-2-sources-jar/module-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Configuration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/Default.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotBlank.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMin.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationProviderResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotEmpty.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/UnexpectedTypeException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/BootstrapConfiguration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertFalse.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ReportAsSingleViolation.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Constraint.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/TraversableResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/NoProviderFoundException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Null.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Path.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validation.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java
*
 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Max.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PastOrPresent.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
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 /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java

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/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/ConvertGroup.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ValidationProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/MessageInterpolator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java

1.460 lvm2 2.02.187-2.ph3

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* /spring-core-5-3-21-sources-jar/org/springframework/asm/Attribute.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Context.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Edge.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/TypePath.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Label.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/asm/ClassVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/MethodTooLargeException.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/FieldVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/ModuleWriter.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/RecordComponentVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/SymbolTable.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/AnnotationWriter.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Handler.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Type.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/ConstantDynamic.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/asm/MethodVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/Frame.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/ClassUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
*

/spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/StringUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/TypeUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/CoroutinesUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/task/TaskRejectedException.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/ResolvableType.java
*
/spring-core-5-3-21-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/SocketUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/AbstractResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AttributeMethods.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java
*
/spring-core-5-3-21-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/unit/DataSize.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/AbstractEnvironment.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/NestedIOException.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/UrlResource.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/ReactiveAdapter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/Ordered.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/RepeatableContainers.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/AnnotationMetadata.java
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 /spring-core-5-3-21-sources-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AbstractMergedAnnotation.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/lang/NonNull.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/lang/NonNullFields.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/MultiValueMap.java
*

/spring-core-5-3-21-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/AnnotationReadingVisitorUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
*
/spring-core-5-3-21-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/Base64Utils.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/MethodInvoker.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/unit/DataUnit.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/xml/TransformerUtils.java
*
/spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/lang/Nullable.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/FileSystemResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/RouteMatcher.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /spring-core-5-3-21-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /spring-core-5-3-21-sources-jar/org/springframework/core/io/ContextResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/style/ValueStyler.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/log/LogDelegateFactory.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/ObjectUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/Constants.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/ValueExtractor.java
*
 /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/ReflectionUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/ConcurrentLruCache.java
*

/spring-core-5-3-21-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/log/LogFormatUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/AntPathMatcher.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
* /spring-core-5-3-21-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/StopWatch.java
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/spring-core-5-3-21-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/CommandLinePropertySource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/CollectionFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SpringProperties.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
*
/spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/type/StandardClassMetadata.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/util/CollectionUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/OrderComparator.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/SystemPropertyUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/PropertiesPersister.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/ResourcePropertiesPersister.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
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 /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/FileUrlResource.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/MethodParameter.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/MimeTypeUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
*
 /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/PropertyResolver.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/metrics/StartupStep.java
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 /spring-core-5-3-21-sources-jar/org/springframework/util/MultiValueMapAdapter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-5-3-21-sources-
jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/ProfilesParser.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java

* /spring-core-5-3-21-sources-jar/org/springframework/util/CustomizableThreadCreator.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/SimpleIdGenerator.java
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* /spring-core-5-3-21-sources-jar/org/springframework/util/MimeType.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/comparator/InstanceComparator.java
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* /spring-core-5-3-21-sources-jar/org/springframework/util/FileSystemUtils.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/KotlinDetector.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
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 /spring-core-5-3-21-sources-jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/ResourceDecoder.java
* /spring-core-5-3-21-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
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* /spring-core-5-3-21-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
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* /spring-core-5-3-21-sources-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /spring-core-5-3-21-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
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* /spring-core-5-3-21-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
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* /spring-context-5-3-21-sources-jar/org/springframework/ui/Model.java
* /spring-context-5-3-21-sources-
jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java
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* /spring-context-5-3-21-sources-jar/org/springframework/stereotype/Controller.java
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jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
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Found in path(s):
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/DelegatingMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
*
/spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-5-3-21-sources-
jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
*
/spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/FixedDelayTask.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-5-3-21-sources-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/IntervalTask.java
* /spring-context-5-3-21-sources-
jar/org/springframework/cache/interceptor/BeanFactoryCacheOperationSourceAdvisor.java
* /spring-context-5-3-21-sources-
jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-5-3-21-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
*
/spring-context-5-3-21-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/remoting/support/RemoteExporter.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/SimpleValueWrapper.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ApplicationListenerDetector.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java

*
 /spring-context-5-3-21-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/FixedRateTask.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/support/StandardScriptEvaluator.java
* /spring-context-5-3-21-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
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 /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/JodaTimeContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/expression/AnnotatedElementKey.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/Task.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-5-3-21-sources-jar/org/springframework/remoting/support/RemoteAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
*
 /spring-context-5-3-21-sources-
jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/expression/MapAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java

* /spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/ScriptFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /spring-context-5-3-21-sources-jar/org/springframework/stereotype/Component.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/NullValue.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/instrument/classloading/websphere/WebSphereLoadTimeWeaver.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/TriggerTask.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
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 /spring-context-5-3-21-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java

* /spring-context-5-3-21-sources-jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-5-3-21-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /spring-context-5-3-21-sources-jar/org/springframework/validation/AbstractBindingResult.java
* /spring-context-5-3-21-sources-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/validation/AbstractErrors.java
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/spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-5-3-21-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /spring-context-5-3-21-sources-
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* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/SimpleKey.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/LiveBeansViewMBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/TriggerContext.java
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/spring-context-5-3-21-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/SimpleThreadScope.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-5-3-21-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-5-3-21-sources-jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
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/spring-context-5-3-21-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/PropertySource.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/NoOpCache.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
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/spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/GenericApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Condition.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /spring-context-5-3-21-sources-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
*
/spring-context-5-3-21-sources-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConditionContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/PeriodicTrigger.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-5-3-21-sources-jar/org/springframework/validation/BindException.java
* /spring-context-5-3-21-sources-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
*
/spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/SimpleCacheManager.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/NoOpCacheManager.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
*
/spring-context-5-3-21-sources-jar/org/springframework/scheduling/TaskScheduler.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Bean.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/index/CandidateComponentsIndex.java
* /spring-context-5-3-21-sources-
jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/ContextAnnotationAutowireCandidateResolver.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /spring-context-5-3-21-sources-
jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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```

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```
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/ApplicationEventPublisher.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/StaticApplicationContext.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/Cache.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /spring-context-5-3-21-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/Async.java
*
/spring-context-5-3-21-sources-jar/org/springframework/validation/ObjectError.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/ui/ModelMap.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
 * @author Stephane Nicoll
* @since 4.1
*/
```

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* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/assembler/MethodNameBasedMBeanInfoAssembler.java
* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
*
 /spring-context-5-3-21-sources-jar/org/springframework/cache/config/CacheAdviceParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
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* /spring-context-5-3-21-sources-jar/org/springframework/remoting/support/RemoteInvocation.java
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* /spring-context-5-3-21-sources-jar/org/springframework/validation/ValidationUtils.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
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* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
* /spring-context-5-3-21-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
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* /spring-context-5-3-21-sources-jar/org/springframework/ejb/access/AbstractSlsbInvokerInterceptor.java
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* /spring-context-5-3-21-sources-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
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* /spring-context-5-3-21-sources-jar/org/springframework/format/Formatter.java
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* /spring-context-5-3-21-sources-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
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* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
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* /spring-context-5-3-21-sources-jar/org/springframework/validation/annotation/Validated.java
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* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
*
* <p>This {@code FactoryBean} is
 a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/AdminServiceFactory.html">{@code AdminServiceFactory}</a>
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/MBeanFactory.html">{@code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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* /spring-context-5-3-21-sources-jar/org/springframework/jmx/export/SpringModelMBean.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
*
```

```
 <p>The {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Description.java
*
/spring-context-5-3-21-sources-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /spring-context-5-3-21-sources-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
*
/spring-context-5-3-21-sources-jar/org/springframework/context/i18n/LocaleContext.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/event/SourceFilteringListener.java
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/spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java

* /spring-context-5-3-21-sources-jar/org/springframework/ui/ConcurrentModel.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/BitsCronField.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
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/spring-context-5-3-21-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/AbstractApplicationContext.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/Cacheable.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
*
/spring-context-5-3-21-sources-jar/org/springframework/context/event/ApplicationEventMulticaster.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/ConfigurationClass.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/CronTrigger.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/support/MessageSourceSupport.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/event/EventListener.java
* /spring-context-5-3-21-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Configuration.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-5-3-21-sources-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/Scheduled.java
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/spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java

* /spring-context-5-3-21-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/AbstractAsyncConfiguration.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/Lazy.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/annotation/BeanMethod.java
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* /spring-context-5-3-21-sources-jar/org/springframework/context/PayloadApplicationEvent.java
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* /spring-context-5-3-21-sources-jar/org/springframework/validation/annotation/ValidationAnnotationUtils.java
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* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-5-3-21-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /spring-context-5-3-21-sources-
jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-5-3-21-sources-jar/org/springframework/scheduling/annotation/EnableScheduling.java

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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/SimpleSecurityContextProvider.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/Mergeable.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
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/spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/BeanInstantiationException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanCreationException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyAccessException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/ObjectFactory.java

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 /spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-5-3-21-sources-
jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/MethodInvocationException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
*
 /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-5-3-21-sources-
jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/NotWritablePropertyException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/annotation/Required.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
*
 /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/support/ResourceEditorRegistrar.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-5-3-21-sources-

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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/BeanUtils.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-5-3-21-sources-
jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
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jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
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 /spring-beans-5-3-21-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
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 /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanNameAware.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/NamedBean.java
* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-
jar/org/springframework/beans/factory/support/ImplicitlyAppearedSingletonException.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/URLEditor.java
*

/spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/Scope.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
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* /spring-beans-5-3-21-sources-
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/YamlProcessor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/BeanFactory.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
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/spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/support/PropertyComparator.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyEditorRegistrySupport.java
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 /spring-beans-5-3-21-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
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* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/InjectionPoint.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/TypeConverterDelegate.java
* /spring-beans-5-3-21-sources-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java

1.464 txw2 4.0.0

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jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/TypeConverter.java
*
 /spring-expression-5-3-21-sources-jar/org/springframework/expression/TypeComparator.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/MethodResolver.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java

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* /spring-expression-5-3-21-sources-jar/org/springframework/expression/TypeLocator.java
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 /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/standard/TokenKind.java
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jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/common/CompositeStringExpression.java
*
 /spring-expression-5-3-21-sources-
jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/TypedValue.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /spring-expression-5-3-21-sources-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/common/LiteralExpression.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/Operation.java
* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-5-3-21-sources-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
*
 /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
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* /spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/ast/AstUtils.java
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/spring-expression-5-3-21-sources-jar/org/springframework/expression/spel/support/StandardTypeLocator.java

1.467 jboss-logging 3.5.0.Final

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1.468 istack-commons 4.1.1

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Manifest-Version: 1.0
Bnd-LastModified: 1648465920192
Bundle-Description: istack common utility code

Bundle-DocURL: https://www.eclipse.org
Bundle-License: http://www.eclipse.org/org/documents/edl-v10.php
Bundle-ManifestVersion: 2
Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.commons-runtime
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 4.1.1
Created-By: Apache Maven Bundle Plugin 5.1.4
Export-Package: com.sun.istack;uses:="jakarta.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="4.1.1",com.sun.istack.local
ization;version="4.1.1",com.sun.istack.logging;version="4.1.1"
Implementation-Build-Id: 4.1.1 - d6e5d28
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: com.sun.istack
Import-Package: jakarta.activation;version="[2.1,3)";resolution:=optiona
l,javax.xml.namespace,javax.xml.stream,org.xml.sax,org.xml.sax.helpers
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Tool: Bnd-5.1.1.202006162103

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1.469 spring-aop 5.3.21

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jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/DynamicIntroductionAdvice.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/ControlFlowPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceAdapter.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java

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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/RootClassFilter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/MethodMatcher.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/Pointcuts.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/MethodMatchers.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-5-3-21-sources-jar/org/aopalliance/intercept/Interceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/ClassFilter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/ClassFilters.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/SpringProxy.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/IntroductionInterceptor.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
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 /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AopUtils.java
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 /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-jar/org/aopalliance/intercept/Invocation.java

* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/ProxyFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/TargetClassAware.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/ProxyMethodInvocation.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectInstanceFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AspectComponentDefinition.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/LazySingletonAspectInstanceFactoryDecorator.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/Advisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/ExpressionPointcut.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AbstractGenericPointcutAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AdviceEntry.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AspectEntry.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/PointcutEntry.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AopContext.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /spring-aop-5-3-21-sources-

jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AdvisedSupport.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/Advised.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
*
/spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AdvisorEntry.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AopProxy.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/scope/ScopedObject.java
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 /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/Pointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/dynamic/Refreshable.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/PoolingConfig.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/scope/DefaultScopedObject.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/LazyInitTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/AopInvocationException.java
*
 /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/PointcutComponentDefinition.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/IntroductionInfo.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AopProxyFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/AfterReturningAdvice.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
*
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/IntroductionAdvisor.java
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* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AopConfigUtils.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/TrueMethodMatcher.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
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 /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/MethodBeforeAdvice.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
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 /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/SingletonTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /spring-aop-5-3-21-sources-jar/org/aopalliance/aop/AspectException.java
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 /spring-aop-5-3-21-sources-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/aopalliance/intercept/MethodInterceptor.java

* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/TargetSource.java
* /spring-aop-5-3-21-sources-jar/org/aopalliance/intercept/ConstructorInvocation.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/TrueClassFilter.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
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/spring-aop-5-3-21-sources-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/TruePointcut.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/StaticMethodMatcher.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
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/spring-aop-5-3-21-sources-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /spring-aop-5-3-21-sources-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
* /spring-aop-5-3-21-sources-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TryCatchFinally.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/JspTag.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/IterationTag.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagExtraInfo.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/FunctionMapper.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ELException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspPage.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/PageContext.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/SkipPageException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyContent.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/FunctionInfo.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/NotFoundELResolver.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ExpressionEvaluator.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/ErrorData.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyTagSupport.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspApplicationContext.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspWriter.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/ValidationMessage.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspFactory.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/BodyTag.java
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 /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagAdapter.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagLibraryValidator.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/JspFragment.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ELParseException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/PageData.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/VariableResolver.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/JspTagException.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/SimpleTagSupport.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/Expression.java
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* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/el/ImplicitObjectELResolver.java

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 /tomcat-jsp-api-10-1-7-sources-jar/jakarta/servlet/jsp/tagext/TagInfo.java
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* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/web/configurers/AbstractInterceptUrlConfigurer.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java
* /spring-security-config-5-2-15-release-sources-

jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerConfigurer.java
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* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/SecurityBuilder.java
*
/spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnoreParents.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java
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* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/annotation/rsocket/RSocketSecurityConfiguration.java
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jar/org/springframework/security/config/http/SessionCreationPolicy.java
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jar/org/springframework/security/config/core/GrantedAuthorityDefaults.java
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jar/org/springframework/security/config/authentication/AuthenticationProviderBeanDefinitionParser.java
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jar/org/springframework/security/config/ldap/LdapProviderBeanDefinitionParser.java
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jar/org/springframework/security/config/http/DefaultFilterChainValidator.java
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jar/org/springframework/security/config/ldap/LdapUserServiceBeanDefinitionParser.java
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jar/org/springframework/security/config/authentication/JdbcUserServiceBeanDefinitionParser.java
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jar/org/springframework/security/config/ldap/ContextSourceSettingPostProcessor.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/method/ProtectPointcutPostProcessor.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/http/HttpFirewallBeanDefinitionParser.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/authentication/AbstractUserDetailsServiceBeanDefinitionParser.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/http/ChannelAttributeFactory.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/http/MatcherType.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/http/FilterChainMapBeanDefinitionDecorator.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/http/SecurityFilters.java
*
/spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/http/package-info.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/package-info.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/authentication/package-
info.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/method/package-info.java
* /spring-security-config-5-2-15-release-sources-
jar/org/springframework/security/config/authentication/PasswordEncoderParser.java
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jar/org/springframework/security/config/method/InterceptMethodsBeanDefinitionDecorator.java
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jar/org/springframework/security/config/DebugBeanDefinitionParser.java
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jar/org/springframework/security/config/method/MethodSecurityMetadataSourceBeanDefinitionParser.java
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jar/org/springframework/security/config/annotation/web/messaging/MessageSecurityMetadataSourceRegistry.java

* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/Elements.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/http/FilterChainBeanDefinitionParser.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/BeanIds.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/ldap/package-info.java
* /spring-security-config-5-2-15-release-sources-jar/org/springframework/security/config/http/PortMappingsBeanDefinitionParser.java

1.472 spring-security-core 5.2.15.RELEASE

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*/
/**
* Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the <code>Object</code> or throw an {@link AccessDeniedException}.
* <p>
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean.
 Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
* </p>
*
```

* @author Ben Alex
*/

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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
*
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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/PasswordEncoder.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
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jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
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jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
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jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
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jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java
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*
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jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/crypto/argon2/Argon2EncodingUtils.java
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jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
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/**
 *
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.

 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/AuthenticatedVoter.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java
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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/event/AuthorizedEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/AuthenticationDetailsSource.java
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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java
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 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/memory/UserAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/SecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/event/PublicInvocationEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/TestingAuthenticationProvider.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/session/SessionInformation.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java
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/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java
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*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/session/SessionRegistry.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/RunAsManagerImpl.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/AbstractSecurityInterceptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/InterceptorStatusToken.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureServiceExceptionEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/util/MethodInvocationUtils.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/AuthorizationServiceException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/ConfigAttribute.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureBadCredentialsEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/RunAsManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/AbstractAuthenticationToken.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/InsufficientAuthenticationException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/AuthenticationException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/LockedException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/UnanimousBased.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/context/SecurityContextImpl.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java
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 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/BadCredentialsException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/ConsensusBased.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/ProviderNotFoundException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java
* /spring-security-core-5-2-15-release-sources-

jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AuthenticationServiceException.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/userdetails/cache/NullUserCache.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/SpringSecurityMessageSource.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/util/SimpleMethodInvocation.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/context/SecurityContext.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/userdetails/UserDetailsService.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/TestingAuthenticationToken.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AuthenticationTrustResolver.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/annotation/Secured.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/AccessDeniedException.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/AbstractAclVoter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/context/SecurityContextHolder.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/util/FieldUtils.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
*

/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/AffirmativeBased.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/User.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/RunAsUserToken.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationToken.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java
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/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/method/MapBasedMethodSecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AuthenticationManager.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/util/InMemoryResource.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/session/SessionRegistryImpl.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/DisabledException.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/Authentication.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/SecurityConfig.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/AccessDecisionVoter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/AfterInvocationProvider.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/RoleVoter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AuthenticationProvider.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/event/AuthorizationFailureEvent.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/UserCache.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/CredentialsExpiredException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/AccessDecisionManager.java
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```
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```

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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/UserDeserializer.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/SecurityJackson2Modules.java
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*/
/**
* A token issued by {@link TokenService}.
*
*
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their
 choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
*
*
* @author Ben Alex
* @since 2.0.1
*/

Found in path(s):
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/Token.java
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* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
*
 /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/UserMixin.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/CoreJackson2Module.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/DefaultMethodSecurityExpressionHandler.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/Transient.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/CachingUserDetailsService.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/ProviderManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/scheduling/DelegatingSecurityContextTaskScheduler.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/Pbkdf2PasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
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*/
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain
* implementation (version 2.3.7). See <a

* href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/
for more information.
* <p>
* For internal use only.
*
* @author
Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/

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jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/Md4.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/parameters/P.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/AuthenticatedPrincipal.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/SpringSecurityCoreVersion.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authorization/AuthorizationDecision.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java
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* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/SimpleGrantedAuthority.java
*
 /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/NullAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/AuthenticationUserDetailsService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/codec/Utf8.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/codec/Hex.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/rcp/package-info.java

*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PostAuthorize.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/method/MethodSecurityExpressionHandler.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PostFilter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/session/SessionDestroyedEvent.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/method/DelegatingMethodSecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/userdetails/UserDetailsByNameServiceWrapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/package-info.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/MutableUser.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/aspectj/AspectJMethodSecurityInterceptor.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/DenyAllPermissionEvaluator.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/method/AbstractFallbackMethodSecurityMetadataSource.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/prepost/PreInvocationAuthorizationAdviceVoter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/authority/GrantedAuthoritiesContainer.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/SecurityExpressionHandler.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/DefaultAuthenticationEventPublisher.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/context/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/package-
info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/TokenService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/event/package-
info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/intercept/aspectj/MethodInvocationAdapter.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/session/SessionCreationEvent.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/jaas/event/package-
info.java
* /spring-security-core-5-2-15-release-sources-

jar/org/springframework/security/access/prepost/PrePostInvocationAttributeFactory.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/DefaultToken.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AccountStatusUserDetailsChecker.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AuthenticationEventPublisher.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/userdetails/cache/SpringCacheBasedUserCache.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/method/MethodSecurityExpressionOperations.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/dao/package-
info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/jdbc/package-
info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/AccountStatusException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/session/package-info.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/AbstractSecurityExpressionHandler.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/core/authority/mapping/Attributes2GrantedAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/vote/RoleHierarchyVoter.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/hierarchicalroles/package-
info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/package-
info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/util/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/provisioning/MutableUserDetails.java
*
/spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/authentication/jaas/memory/package-info.java
* /spring-security-core-5-2-15-release-sources-
jar/org/springframework/security/access/annotation/AnnotationMetadataExtractor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/aspectj/package-

info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/annotation/Jsr250SecurityConfig.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PreFilter.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/annotation/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/intercept/aopalliance/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/ExpressionUtils.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/AbstractExpressionBasedMethodConfigAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/context/DelegatingApplicationListener.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/UserDetailsManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/SimpleAttributes2GrantedAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/vote/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PostInvocationAuthorizationAdvice.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/PostInvocationExpressionAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionRoot.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/AuthorityUtils.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/MethodSecurityEvaluationContext.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/SimpleAuthorityMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/ExpressionBasedPostInvocationAdvice.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PreInvocationAuthorizationAdvice.java

* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/event/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PreAuthorize.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/jackson2/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PreInvocationAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/method/PreInvocationExpressionAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/method/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/prepost/PostInvocationAttribute.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/crypto/codec/package-info.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/memory/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/userdetails/UserDetailsChecker.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/GroupManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/PermissionCacheOptimizer.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/hierarchicalroles/NullRoleHierarchy.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/GrantedAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/provisioning/InMemoryUserDetailsManager.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/SimpleMappableAttributesRetriever.java
*
/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/token/Sha512DigestUtils.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/annotation/Jsr250Voter.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/CredentialsContainer.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/method/P.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/MappableAttributesRetriever.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/core/authority/mapping/MapBasedAttributes2GrantedAuthoritiesMapper.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/package-info.java
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java
*

/spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/SecurityExpressionRoot.java
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*/
/**
  * Determines if the {@link #getAuthentication()} has permission to access the target
  * given the permission
  * @param target the target domain object to check permission on
  * @param permission the permission to check on the domain object (i.e. "read",
  * "write", etc).
  * @return true if permission
 is granted to the {@link #getAuthentication()}, else
  * false
  */
```

Found in path(s):
* /spring-security-core-5-2-15-release-sources-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java

1.473 spring-security-acl 5.2.15.RELEASE

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* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/afterinvocation/ArrayFilterer.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/AclFormattingUtils.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/OwnershipAcl.java
*
 /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/SidRetrievalStrategy.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/UnloadedSidException.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/AclAuthorizationStrategy.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/CumulativePermission.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/ConsoleAuditLogger.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/AclAuthorizationStrategyImpl.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/AclService.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/AccessControlEntry.java
* /spring-security-acl-5-2-15-release-sources-

jar/org/springframework/security/acls/domain/GrantedAuthoritySid.java
*
/spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/AuditLogger.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationCollectionFilteringProvider.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/afterinvocation/CollectionFilterer.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/jdbc/LookupStrategy.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/MutableAclService.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/NotFoundException.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/ObjectIdentityRetrievalStrategyImpl.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/Sid.java
*
/spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/IdentityUnavailableException.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/afterinvocation/AbstractAclProvider.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/ObjectIdentityImpl.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/EhCacheBasedAclCache.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/AuditableAcl.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/AclCache.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/SidRetrievalStrategyImpl.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/AlreadyExistsException.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/MutableAcl.java
*
/spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/ObjectIdentity.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/ObjectIdentityRetrievalStrategy.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/Permission.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationProvider.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/ChildrenExistException.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/AclEntryVoter.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/Acl.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/afterinvocation/Filterer.java
*
/spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/BasePermission.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/AclImpl.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/AuditableAccessControlEntry.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/PrincipalSid.java
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* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/jdbc/JdbcMutableAclService.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/jdbc/JdbcAclService.java
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* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/package-info.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/AclDataAccessException.java
*
 /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/AclPermissionEvaluator.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/PermissionFactory.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/AclPermissionCacheOptimizer.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/afterinvocation/package-
info.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/ObjectIdentityGenerator.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/model/package-info.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/domain/AccessControlEntryImpl.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/package-info.java
* /spring-security-acl-5-2-15-release-sources-
jar/org/springframework/security/acls/model/PermissionGrantingStrategy.java
*
 /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/jdbc/package-info.java
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* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/DefaultPermissionGrantingStrategy.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/domain/DefaultPermissionFactory.java
* /spring-security-acl-5-2-15-release-sources-jar/org/springframework/security/acls/jdbc/AclClassIdUtils.java

1.474 shadow 4.6-16.el8

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1.476 activation-api 1.2.2

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1.480 libcap 2.48-4.el8

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1.481 e2fsprogs 1.45.6-5.el8

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

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

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

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This is the Debian GNU/Linux prepackaged version of the Common Error
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the

same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

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

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

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former
contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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

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

``Source code'' for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

@enumerate a
@item
The modified work must itself be a software library.

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

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

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

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

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

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

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

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

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

 Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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

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

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

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

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

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

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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@end
smallexample

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school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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

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when run, you must cause it, when started running for such
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announcement including an appropriate copyright notice and a
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the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

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

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xwd v1.0.7

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  */

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xwd v1.0.7

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 *
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Mesa 3-D Graphics Library v21.0.3

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Ext headers       GL/glext.h            Khronos
                  GL/glxext.h           Khronos
                  GL/wglext.h           Khronos
                  KHR/khrplatform.h     Khronos
```

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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---
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include/GL/glxext.h
include/GL/wglxext.h :

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1.488 libxml2 2.9.7-13.el8_6.1

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1.489 expat 2.2.5-8.el8_6.2

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1.490 curl 7.61.1-22.el8_6.3

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==========

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1.491 cpp 8.5.0-10.1.el8_6

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

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

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

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

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

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

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

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

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

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

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

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

assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

``The Program'' refers to any copyrightable work licensed under this
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``recipients'' may be individuals or organizations.

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

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

To ``propagate'' a work means to do anything with it that, without
permission, would make you directly or secondarily liable
for
infringement under applicable copyright law, except executing it on a
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through a computer network, with no transfer of a copy, is not
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the extent that it includes a convenient and prominently visible
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work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets
this criterion.

@item Source Code.

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

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

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if
any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

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

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

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

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

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

@item
Convey individual copies of the object code with a copy of the written
offer
 to provide the Corresponding Source. This alternative is
allowed only occasionally and noncommercially, and only if you
received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions

next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

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

@end enumerate

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

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tangible personal property which is normally used for personal,
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coverage. For a particular product received by a particular user,
``normally used'' refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects
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Version 3.1, 31 March 2009

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This option is useful when you wish to copy part of the code of

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Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

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

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

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

which the executable runs, unless that component itself accompanies the executable.

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

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

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
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1. Source Code.

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

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in

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========

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1.492 pcre 10.32-3.el8_6

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Written by: Philip Hazel
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1.493 vim 8.0.1763-19.el8_6.4

1.494 bash 4.4.20-4.el8_6

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.507 nspr 4.34.0-3.el8_6

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (a, b) => ... }
 val x: ((Int, Int) => Int) = (((a, b)) => a)
                              ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
 val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
                                   ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the
 Tuple3,
    or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
 val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
                                   ^
3 errors
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*           bug 292478 - Report potentially null across variable assignment
*           bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 265744 - Enum switch should warn about missing default
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*        Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*        Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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*        bug 383368 - [compiler][null] syntactic null analysis for field references
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

```
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug
 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 431581 - Eclipse compiles what it should not
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
```

```
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 446442 - [1.8] merge null annotations from
 super methods
*       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*          bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                           bug 386692 - Missing "unused" warning on "autowired" fields
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*   Stephan Herrmann - Contributions for
*   Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*   Bug 388630 - @NonNull diagnostics at line 0
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
 *   Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*   Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
*   Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/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
**********/

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*   Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfo.java
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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*   Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 434556 - Broken class file generated for incorrect annotation usage
*   Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*   Stephan Herrmann - Contribution for
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Olivier Tardieu tardieu@us.ibm.com - Contributions for
*   Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java
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*   Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*   Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

```
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Stephan Herrmann - Contribution for

*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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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/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/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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Found in path(s):
* /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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* Contributors:
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*   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] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
**********/

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*   wharley@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/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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*   Stephan Herrmann - Contribution for
*   bug 384380 - False positive on a "Potential null pointer access" after a continue
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java
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*     IBM Corporation - initial API and implementation
*     Perry James - nullStatus method improvement (165346)
*     Stephan Herrmann - Contribution for
*        bug 383368 - [compiler][null] syntactic null analysis for field references
**********************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 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
*******************************************************************************/
```

Found in path(s):
* /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/IGenericMethod.java
* /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
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
*******************************************************************************/
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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*    IBM Corporation - fix for 342936
*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*        Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*        Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*        Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
```

```
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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*     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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*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*     Stephan Herrmann - Contribution for
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *        Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 458396 - NPE in CodeStream.invoke()
```

```
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/
```

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* Contributors:
*     IBM Corporation - initial API and implementation
*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* Contributors:
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*  Stephan Herrmann - Contribution for
*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
```

info cannot be null
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 378674 - "The method can be declared as static" is wrong
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.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 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java
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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
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Jesper S Møller <jesper@selskabet.org> - Contributions for
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   bug 529556 - [18.3] Add content assist support for 'var' as a type
*
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*         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 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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*         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 358903 - Filter practically unimportant resource leak warnings
*         bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*         Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
```

```
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*    Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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```

```
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 458396 - NPE in CodeStream.invoke()
*********************************************************************************/
```

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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
```

```
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********************************************************************************/

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* Contributors:
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
```

null test in lazy disjunction
**********/

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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*   Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 446442 - [1.8] merge null annotations from super methods
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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*   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 - Java 8 support
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*                    Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*    Stephan Herrmann - Contribution for
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
```

InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

```
*                   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                   Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                   Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                   Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                   Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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*     Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*     Stephan Herrmann - Contributions for
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 401030 - [1.8][null] Null analysis support for lambda methods.
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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Found
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 292478 - Report potentially null across variable assignment
*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 370639 - [compiler][resource] restore the default for resource leak warnings
*         bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*         bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*         bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 430150 - [1.8][null] stricter checking against type variables
*         Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Jesper S Moller - Contributions for
*         Bug 378674 - "The method can be declared as static" is wrong
*         Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*         Bug 529556 - [18.3] Add content assist support for 'var' as a type
```

*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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* /ecj-3-26-0-sources-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 BatchMessagerImpl
*
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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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*   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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*   Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*   bug 325755 - [compiler] wrong initialization state after conditional expression
*   bug 320170 - [compiler] [null] Whitebox issues in null analysis
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*          Bug 328281 - visibility leaks not detected when analyzing unused field in private class
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*          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 328281 - visibility leaks not detected when analyzing unused field in private class
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
```

```
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
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*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*   Stephan Herrmann - Contribution for
*   Bug 440474 - [null] textual encoding of external null annotations
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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 376053 - [compiler][resource] Strange potential resource leak problems
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract

* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug
392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs
special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

```
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.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 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 379784 - [compiler] "Method can be static" is not getting reported
*       bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super
class.
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null
 analysis for field references
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
```

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 417295 - [1.8[[null] Massage type annotated null analysis
to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning
for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
***/

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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug
 383368 - [compiler][null] syntactic null analysis for field references
*   bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* IBM Corporation - Fix for bug 328575
* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
*

/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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*       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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.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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*     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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*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
```

```
*          bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*********************************************************************************/
```

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*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
*********************************************************************************/
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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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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
**/

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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual

resolution of ReferenceExpression is not seen to be happening.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
**********/

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*   IBM Corporation - Bug fixes
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*   wharley@bea.com - initial API and implementation
*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*   bug 401271 - StackOverflowError

when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 559618 - No compiler warning for import from same package
* Bug 560630 - No warning on unused import on class from same package
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
* /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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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                     Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*        Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                     Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* 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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*   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] 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 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-26-0-sources-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
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
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*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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*   Frits Jalvingh - fix for bug 533830.
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* /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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*   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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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*
* Contributors:
*   IBM Corporation - initial API and implementation
*   Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*   Stephan Herrmann - Contributions for
*   bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*   bug 401035 - [1.8] A few tests have started failing recently
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*   bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*   bug 393192 - Incomplete type hierarchy with > 10 annotations
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
           Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
**/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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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
*                         EnumStaticFieldInInInitializerContext
*                         ExternalProblemNotFixable
*                         ExternalProblemFixable
*     IBM Corporation - added the following constants
```

```
*                       AnnotationValueMustBeAnEnumConstant
*                       OverridingMethodWithoutSuperInvocation
*                       MethodMustOverrideOrImplement
*                       TypeHidingTypeParameterFromType
*                       TypeHidingTypeParameterFromMethod
*                       TypeHidingType
*    IBM Corporation - added the following constants
*        NullLocalVariableReference
*        PotentialNullLocalVariableReference
*        RedundantNullCheckOnNullLocalVariable
*        NullLocalVariableComparisonYieldsFalse
 *       RedundantLocalVariableNullAssignment
*        NullLocalVariableInstanceofYieldsFalse
*        RedundantNullCheckOnNonNullLocalVariable
*        NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                       InvalidUsageOfTypeParametersForAnnotationDeclaration
*                       InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*        RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*      MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*      UnusedObjectAllocation
*      PotentiallyUnclosedCloseable
*      PotentiallyUnclosedCloseableAtExit
*      UnclosedCloseable
*      UnclosedCloseableAtExit
*      ExplicitlyClosedAutoCloseable
*        RequiredNonNullButProvidedNull
 *       RequiredNonNullButProvidedPotentialNull
*       RequiredNonNullButProvidedUnknown
*       NullAnnotationNameMustBeQualified
*       IllegalReturnNullityRedefinition
*       IllegalRedefinitionToNonNullParameter
*       IllegalDefinitionToNonNullParameter
*       ParameterLackingNonNullAnnotation
*       ParameterLackingNullableAnnotation
*       PotentialNullMessageSendReference
*       RedundantNullCheckOnNonNullMessageSend
*       CannotImplementIncompatibleNullness
*       RedundantNullAnnotation
*      RedundantNullDefaultAnnotation
*      RedundantNullDefaultAnnotationPackage
*      RedundantNullDefaultAnnotationType
*      RedundantNullDefaultAnnotationMethod
*      ContradictoryNullAnnotations
*      IllegalAnnotationForBaseType
```

* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast

```
 *        ContradictoryNullAnnotationsInferred
*        NonNullDefaultDetailIsNotEvaluated
*        NullNotCompatibleToFreeTypeVariable
*        NullityMismatchAgainstFreeTypeVariable
*        ImplicitObjectBoundNoNullDefault
*        IllegalParameterNullityRedefinition
*        ContradictoryNullAnnotationsInferredFunctionType
*        IllegalReturnNullityRedefinitionFreeTypeVariable
*        UnlikelyCollectionMethodArgumentType
*        UnlikelyEqualsArgumentType
*      Jesper S Moller  - added the following constants
*        TargetTypeNotAFunctionalInterface
*        OuterLocalMustBeEffectivelyFinal
*        IllegalModifiersForPackage
*        DuplicateAnnotationNotMarkedRepeatable
*        DisallowedTargetForContainerAnnotation
*        RepeatedAnnotationWithContainerAnnotation
*        ContainingAnnotationMustHaveValue
*        ContainingAnnotationHasNonDefaultMembers
*        ContainingAnnotationHasWrongValueType
*        ContainingAnnotationHasShorterRetention
 *        RepeatableAnnotationHasTargets
*        RepeatableAnnotationTargetMismatch
*        RepeatableAnnotationIsDocumented
*        RepeatableAnnotationIsInherited
*        RepeatableAnnotationWithRepeatingContainerAnnotation
*        VarLocalMultipleDeclarators
*        VarLocalCannotBeArray
*        VarLocalReferencesItself
*        VarLocalWithoutInitizalier
*        VarLocalInitializedToNull
*        VarLocalCannotBeArrayInitalizers
*        VarLocalCannotBeLambda
*        VarLocalCannotBeMethodReference
*        VarIsReserved
*        VarIsReservedInFuture
*        VarIsNotAllowedHere
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java

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*   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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* /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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.java
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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-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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*   Stephan Herrmann - Contributions for
*   Bug 186342 - [compiler][null] Using annotations for null checking
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java

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* Contributors:
*     IBM Corporation - initial API and implementation
*     Walter Harley   - Patch for ensuring the parent folders are created
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*     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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*   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/apt/model/ExecutableElementImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteral.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /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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*   IBM Corporation - initial API and implementation
*   Erling Ellingsen - patch for bug 125570

```
*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*       Bug 544921 - [performance] Poor performance with large source files
**********************************************************************************/
```

Found
in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

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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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
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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*         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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*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*        bug 185682 - Increment/decrement operators mark local variables as read
*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*        Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*        Bug 458396 - NPE in CodeStream.invoke()
*        Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*     Till Brychcy - Contribution for
*              bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /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
*
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/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
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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ***/

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*   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 - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations

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*   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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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*   Bug 431408 - Java 8 (1.8) generics bug
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*   Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.

* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* 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:
*   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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*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
*******************************************************************************/
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* /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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*     Stephan Herrmann - Contributions for
*         bug 292478 - Report potentially null across variable assignment
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field
 references
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 426792 - [1.8][inference][impl] generify new type inference engine
*         Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*         Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*         Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
**********************************************************************************/

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*   Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
*   Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 *   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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*   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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*   IBM Corporation - fix for 342598, 382590
*   Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java

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*         Bug 378674 - "The method can be declared as static" is wrong
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*     Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
*         bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*******************************************************************************/
```

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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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* /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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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
**********/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
**********/

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*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

```
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*         bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
**********************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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*   Stephan Herrmann - Contribution for
*   Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
**********/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

 @T Z;   type => Z annotations => [[@T]]
     @T Y.@T Z   type => Z annotations => [[@T][@T]]
     @T X.@T Y.@T Z   type => Z annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z   type => Z annotations => [[][@T][@T][@T]]

in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.
*/

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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Argument.java
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*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
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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
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
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 /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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*   tyeung@bea.com - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Stephan Herrmann - Contribution for bug 295551
*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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*        bug 332637 - Dead Code detection removing code that isn't dead
*        bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*        bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*******************************************************************************/
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*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*           bug 186342 - [compiler][null] Using annotations for null checking
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
```

* Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
**********/

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/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
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*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*   Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*   Bug 457079 - Regression: type inference
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/JrtFileSystem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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```

*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*   Bug 471611 - Error on hover on call to generic method with null annotation
*   Jesper Steen Moller - Contributions for
*   Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

Found in path(s):
* /ecj-3-26-0-sources-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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*     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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*       Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArraySingleTypeReference.java
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*     Stephan Herrmann - Contributions for
*        bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*        Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*        Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*        Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*        Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
**********************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */

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* Contributors:
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*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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*         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
*   IBM Corporation - Fix for bug 328575
*   IBM Corporation - Java 8 support
***/

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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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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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```

* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

```
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* Contributors:
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.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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*   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 - Contributions for
*         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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1.510 dojo 1.17.0

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1.513 jackson-module-scala_2.13 2.12.6

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1.515 dijit 1.10.4

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1.518 jackson-databind 2.14.0-rc2

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.519 jackson-annotations 2.14.0-rc2

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1.520 jackson 2.14.0-rc2

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-->

Found in path(s):
* /groovy-xml-3-0-13-sources-jar/groovy/xml/streamingmarkupsupport/package.html
*
/groovy-xml-3-0-13-sources-jar/groovy/xml/dom/package.html
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/package.html
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/package.html
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```

Found in path(s):

```
* /groovy-xml-3-0-13-sources-jar/groovy/xml/markupsupport/AllControlToUndefined.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/markupsupport/StandardXmlFilter.java
*
 /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/FilteredNodeChildren.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/Node.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/streamingmarkupsupport/BaseMarkupBuilder.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/NodeChildren.java
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* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/NamespaceAwareHashMap.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/XmlNodePrinter.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/GPathResult.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/MarkupBuilderHelper.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/Attributes.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/Node.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/FilteredAttributes.java
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 /groovy-xml-3-0-13-sources-jar/groovy/xml/XmlUtil.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/XmlSlurper.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/markupsupport/DoubleQuoteFilter.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/NamespaceAwareHashMap.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/NamespaceBuilderSupport.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/StreamingDOMBuilder.groovy
* /groovy-xml-3-0-13-sources-jar/groovy/xml/XmlNodePrinter.java
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* /groovy-xml-3-0-13-sources-jar/groovy/util/XmlUtil.java
* /groovy-xml-3-0-13-sources-jar/org/apache/groovy/xml/extensions/XmlExtensions.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/XmlParser.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/markupsupport/SingleQuoteFilter.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/NodeChild.java
```

*
/groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/NoChildren.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/NodeIterator.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/StreamingSAXBuilder.groovy
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/NodeChild.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/ReplacementNode.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/FilteredNodeChildren.java
* /groovy-xml-3-0-13-sources-jar/org/codehaus/groovy/runtime/XmlGroovyMethods.java
* /groovy-xml-3-0-13-sources-jar/groovy/util/slurpersupport/NodeParents.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/Attribute.java
*
/groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/NodeParents.java
* /groovy-xml-3-0-13-sources-jar/org/apache/groovy/xml/tools/DomToGroovy.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/NodeIterator.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/FactorySupport.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/Attributes.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/Namespace.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/markupsupport/StandardControlToUndefined.java
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* /groovy-xml-3-0-13-sources-jar/groovy/xml/XmlSlurperFactory.groovy
* /groovy-xml-3-0-13-sources-jar/groovy/xml/NamespaceBuilder.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/streamingmarkupsupport/StreamingMarkupWriter.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/XmlParserFactory.groovy
* /groovy-xml-3-0-13-sources-jar/groovy/xml/StreamingMarkupBuilder.groovy
* /groovy-xml-3-0-13-sources-jar/groovy/xml/slurpersupport/FilteredAttributes.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/streamingmarkupsupport/Builder.java
* /groovy-xml-3-0-13-sources-jar/org/codehaus/groovy/tools/xml/DomToGroovy.java
* /groovy-xml-3-0-13-sources-jar/groovy/xml/MarkupBuilder.java

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# Format: one extension on each line without the leading "*."
# Listed below are default groovy source file extensions.

# NOTE: This implementation
 of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /groovy-3-0-13-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions
No license file was found, but licenses were detected in source scan.

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-->

Found in path(s):
```

* /groovy-3-0-13-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html
*
 /groovy-3-0-13-sources-jar/overviewj.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/syntax/package.html
* /groovy-3-0-13-sources-jar/groovy/util/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/tools/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/classgen/asm/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/tools/javac/package.html
* /groovy-3-0-13-sources-jar/groovy/security/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/ast/stmt/package.html
* /groovy-3-0-13-sources-jar/groovy/time/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/classgen/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/runtime/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/vmplugin/package.html
*
 /groovy-3-0-13-sources-jar/org/codehaus/groovy/ast/expr/package.html
* /groovy-3-0-13-sources-jar/overview.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/ast/package.html
* /groovy-3-0-13-sources-jar/groovy/lang/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /groovy-3-0-13-sources-jar/groovy/grape/defaultGrapeConfig.xml
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/control/io/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/control/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/package.html
* /groovy-3-0-13-sources-jar/groovy/io/package.html
* /groovy-3-0-13-sources-jar/groovy/inspect/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/tools/xml/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/control/messages/package.html
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/reflection/package.html
No license file was found, but licenses were detected in source scan.

/*
* This file is adapted from the Antlr4 Java grammar which has the following license
*
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*
*   http://www.opensource.org/licenses/bsd-license.php
*
* Subsequent modifications by the Groovy community have been done under the Apache License v2:
*
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```
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*  specific language governing permissions and limitations
*  under the License.
*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
lexer grammar GroovyLexer;

options {
  superClass = AbstractLexer;
}

@header {
  import java.util.Deque;
  import java.util.ArrayDeque;
  import java.util.Map;
  import java.util.HashMap;
  import java.util.Set;
  import java.util.HashSet;
  import java.util.Collections;
  import java.util.Arrays;
  import java.util.stream.IntStream;
  import java.util.logging.Logger;
  import java.util.logging.Level;
  import java.util.EmptyStackException;
  import org.apache.groovy.util.Maps;
  import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}

@members {
  private static final
 Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
```

```
private boolean errorIgnored;
private long tokenIndex;
private int  lastTokenType;
private int  invalidDigitCount;

/**
 * Record the index and token type of the current token while emitting tokens.
 */
@Override
public void emit(Token token) {
    this.tokenIndex++;

    int tokenType = token.getType();
    if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
    }

    if (RollBackOne == tokenType) {
        this.rollbackOneChar();
    }

    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY = {
    DEC,
    INC,
    THIS,
    RBRACE,
    RBRACK,
    RPAREN,
    GStringEnd,
    NullLiteral,
    StringLiteral,
    BooleanLiteral,
    IntegerLiteral,
    FloatingPointLiteral,
    Identifier, CapitalizedIdentifier
};
static {

   Arrays.sort(REGEX_CHECK_ARRAY);
}

private boolean isRegexAllowed() {
    return (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) < 0);
}
```

```
/**
 * just a hook, which will be overrided by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {
        return column;
    }

    @Override

public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;
```

```
            return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
        }
    }

    protected void enterParenCallback(String text) {}

    protected void exitParenCallback(String text) {}

    private final Deque<Paren> parenStack = new ArrayDeque<>(32);

    private void enterParen() {
        String text = getText();
        enterParenCallback(text);

        parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
    }

    private void exitParen() {
        String text = getText();
        exitParenCallback(text);

        Paren paren = parenStack.peek();
        if (null == paren) return;
        parenStack.pop();
    }
     private boolean isInsideParens() {
        Paren paren = parenStack.peek();

        // We just care about "(" and "[", inside which the new lines will be ignored.
        // Notice: the new lines between "{" and "}" can not be ignored.
        if (null == paren) {
            return false;
        }

        return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(....)) as parenthesis
                || "[".equals(paren.getText());
    }
    private void ignoreTokenInsideParens() {
        if (!this.isInsideParens()) {
            return;
        }

        this.setChannel(Token.HIDDEN_CHANNEL);
    }
    private void ignoreMultiLineCommentConditionally() {
        if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
            return;
```

```
        }

        this.setChannel(Token.HIDDEN_CHANNEL);
    }

    @Override
    public int getSyntaxErrorSource() {
        return GroovySyntaxError.LEXER;
    }

    @Override
     public int getErrorLine() {
        return getLine();
    }

    @Override
    public int getErrorColumn() {
        return getCharPositionInLine() + 1;
    }

    @Override
    public int popMode() {
        try {
            return super.popMode();
        } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
            if (LOGGER.isLoggable(Level.FINEST)) {
                LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
            }
        }

        return Integer.MIN_VALUE;
    }

    private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
        return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
    }

    public boolean
   isErrorIgnored() {
        return errorIgnored;
    }

    public void setErrorIgnored(boolean errorIgnored) {
        this.errorIgnored = errorIgnored;
```

```
  }
}


// §3.10.5 String Literals
StringLiteral
  :  GStringQuotationMark  DqStringCharacter*  GStringQuotationMark
  |  SqStringQuotationMark  SqStringCharacter*  SqStringQuotationMark
  |  Slash { this.isRegexAllowed() && _input.LA(1) != '*' }?  SlashyStringCharacter+  Slash

  |  TdqStringQuotationMark  TdqStringCharacter*  TdqStringQuotationMark
  |  TsqStringQuotationMark  TsqStringCharacter*  TsqStringQuotationMark
  |  DollarSlashyGStringQuotationMarkBegin  DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
  ;

GStringBegin
  :  GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringBegin
  :  TdqStringQuotationMark   TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
   ;
SlashyGStringBegin
  :  Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringBegin
  :  DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;

mode DQ_GSTRING_MODE;
GStringEnd
  :  GStringQuotationMark     -> popMode
  ;
GStringPart
  :  Dollar  -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
GStringCharacter
  :  DqStringCharacter -> more
  ;

mode TDQ_GSTRING_MODE;
TdqGStringEnd
```

```
  :  TdqStringQuotationMark    -> type(GStringEnd), popMode
  ;
TdqGStringPart
  :  Dollar   -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringCharacter
  :  TdqStringCharacter
 -> more
  ;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
  :  Dollar? Slash  -> type(GStringEnd), popMode
  ;
SlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?   -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringCharacter
  :  SlashyStringCharacter -> more
  ;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
  :  DollarSlashyGStringQuotationMarkEnd      -> type(GStringEnd), popMode
  ;
DollarSlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?   -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringCharacter
  :  DollarSlashyStringCharacter -> more
  ;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
  :  '{' { this.enterParen();  } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
  ;
GStringIdentifier
  :  IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
  ;


mode GSTRING_PATH_MODE;
GStringPathPart

 :  Dot IdentifierInGString
  ;
```

```
RollBackOne
  :  . {
        // a trick to handle GStrings followed by EOF properly
        int readChar = _input.LA(-1);
        if (EOF == _input.LA(1) && ('"' == readChar || '/' == readChar)) {
           setType(GStringEnd);
        } else {
           setChannel(HIDDEN);
        }
       } -> popMode
  ;


mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
  :  ~["\r\n\\$]
  |  EscapeSequence
  ;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
  :  ~['\r\n\\]
  |  EscapeSequence
  ;

// character in the triple double quotation string. e.g. """a"""
fragment TdqStringCharacter
  :  ~["\\$]
  |  GStringQuotationMark { _input.LA(1) != '"' || _input.LA(2) != '"' || _input.LA(3) == '"' && (_input.LA(4) != '"'
|| _input.LA(5) != '"') }?
  |  EscapeSequence
  ;

// character in the triple single quotation string.
 e.g. '''a'''
fragment TsqStringCharacter
  :  ~['\\]
  |  SqStringQuotationMark { _input.LA(1) != '\'' || _input.LA(2) != '\'' || _input.LA(3) == '\'' && (_input.LA(4) !=
'\'' || _input.LA(5) != '\'') }?
  |  EscapeSequence
  ;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
  :  SlashEscape
```

```
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
  ;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
  :  DollarSlashEscape | DollarDollarEscape
  |  Slash { _input.LA(1) != '$' }?
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
  ;

// Groovy keywords
AS             : 'as';
DEF            : 'def';
IN             : 'in';
TRAIT          : 'trait';
THREADSAFE     : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR            : 'var';

// §3.9 Keywords
BuiltInPrimitiveType
  :  BOOLEAN
  |  CHAR
  |
 BYTE
  |  SHORT
  |  INT
  |  LONG
  |  FLOAT
  |  DOUBLE
  ;

ABSTRACT     : 'abstract';
ASSERT       : 'assert';

fragment
BOOLEAN      : 'boolean';

BREAK        : 'break';

fragment
BYTE         : 'byte';

CASE         : 'case';
CATCH        : 'catch';
```

```
fragment
CHAR         : 'char';

CLASS        : 'class';
CONST        : 'const';
CONTINUE     : 'continue';
DEFAULT      : 'default';
DO           : 'do';

fragment
DOUBLE       : 'double';

ELSE         : 'else';
ENUM         : 'enum';
EXTENDS      : 'extends';
FINAL        : 'final';
FINALLY      : 'finally';

fragment
FLOAT        : 'float';


FOR          : 'for';
IF           : 'if';
GOTO         : 'goto';
IMPLEMENTS   : 'implements';
IMPORT       : 'import';
INSTANCEOF   : 'instanceof';

fragment
INT          : 'int';

INTERFACE    : 'interface';

fragment
LONG         : 'long';

NATIVE       : 'native';
NEW          : 'new';
PACKAGE      : 'package';
PRIVATE      : 'private';
PROTECTED
   : 'protected';
PUBLIC       : 'public';
RETURN       : 'return';

fragment
```

```
SHORT        : 'short';


STATIC       : 'static';
STRICTFP     : 'strictfp';
SUPER        : 'super';
SWITCH       : 'switch';
SYNCHRONIZED  : 'synchronized';
THIS         : 'this';
THROW        : 'throw';
THROWS       : 'throws';
TRANSIENT    : 'transient';
TRY          : 'try';
VOID         : 'void';
VOLATILE     : 'volatile';
WHILE        : 'while';


// §3.10.1 Integer Literals

IntegerLiteral
  :  (   DecimalIntegerLiteral
     |   HexIntegerLiteral
     |   OctalIntegerLiteral
     |   BinaryIntegerLiteral
     ) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?

  // !!! Error Alternative !!!
  |   Zero ([0-9] { invalidDigitCount++; })+ { require(errorIgnored, "Invalid octal number", -(invalidDigitCount +
1), true); } IntegerTypeSuffix?
  ;

fragment
Zero
  :   '0'
  ;

fragment
DecimalIntegerLiteral
  :
  DecimalNumeral IntegerTypeSuffix?
  ;

fragment
HexIntegerLiteral
  :   HexNumeral IntegerTypeSuffix?
  ;
```

```
fragment
OctalIntegerLiteral
  :  OctalNumeral IntegerTypeSuffix?
  ;

fragment
BinaryIntegerLiteral
  :  BinaryNumeral IntegerTypeSuffix?
  ;

fragment
IntegerTypeSuffix
  :  [lLiIgG]
  ;

fragment
DecimalNumeral
  :  Zero
  |  NonZeroDigit (Digits? | Underscores Digits)
  ;

fragment
Digits
  :  Digit (DigitOrUnderscore* Digit)?
  ;

fragment
Digit
  :  Zero
  |  NonZeroDigit
  ;

fragment
NonZeroDigit
  :  [1-9]
  ;

fragment
DigitOrUnderscore
  :  Digit
  |  Underscore
  ;

fragment
Underscores
  :  Underscore+
  ;
```

```
fragment
Underscore
  :  '_'
  ;

fragment
HexNumeral
  :  Zero [xX] HexDigits
  ;

fragment
HexDigits
  :  HexDigit (HexDigitOrUnderscore* HexDigit)?
  ;

fragment
HexDigit
  :  [0-9a-fA-F]
  ;

fragment
HexDigitOrUnderscore
  :  HexDigit
  |  Underscore
  ;

fragment
OctalNumeral
   :  Zero Underscores? OctalDigits
  ;

fragment
OctalDigits
  :  OctalDigit (OctalDigitOrUnderscore* OctalDigit)?
  ;

fragment
OctalDigit
  :  [0-7]
  ;

fragment
OctalDigitOrUnderscore
  :  OctalDigit
  |  Underscore
  ;

fragment
```

```
BinaryNumeral
  :  Zero [bB] BinaryDigits
  ;

fragment
BinaryDigits
  :  BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
  ;

fragment
BinaryDigit
  :  [01]
  ;

fragment
BinaryDigitOrUnderscore
  :  BinaryDigit
  |  Underscore
  ;

// §3.10.2 Floating-Point Literals

FloatingPointLiteral
  :  (  DecimalFloatingPointLiteral
     |  HexadecimalFloatingPointLiteral
     ) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
  ;

fragment
DecimalFloatingPointLiteral
  :  Digits? Dot Digits ExponentPart? FloatTypeSuffix?
  |  Digits ExponentPart FloatTypeSuffix?
  |  Digits FloatTypeSuffix
  ;

fragment
ExponentPart
  :  ExponentIndicator
 SignedInteger
  ;

fragment
ExponentIndicator
  :  [eE]
  ;

fragment
SignedInteger
```

```
  :  Sign? Digits
  ;

fragment
Sign
  :  [+\-]
  ;

fragment
FloatTypeSuffix
  :  [fFdDgG]
  ;

fragment
HexadecimalFloatingPointLiteral
  :  HexSignificand BinaryExponent FloatTypeSuffix?
  ;

fragment
HexSignificand
  :  HexNumeral Dot?
  |  Zero [xX] HexDigits? Dot HexDigits
  ;

fragment
BinaryExponent
  :  BinaryExponentIndicator SignedInteger
  ;

fragment
BinaryExponentIndicator
  :  [pP]
  ;

fragment
Dot :  '.'
  ;

// §3.10.3 Boolean Literals

BooleanLiteral
  :  'true'
  |  'false'
  ;


// §3.10.6 Escape Sequences for Character and String Literals
```

```
fragment
EscapeSequence
  :  Backslash [btnfrs'"\\]
  |  OctalEscape
  |  UnicodeEscape
  |  DollarEscape
  |  LineEscape
  ;


fragment
OctalEscape
  :  Backslash OctalDigit
  |  Backslash OctalDigit OctalDigit
  |  Backslash ZeroToThree OctalDigit OctalDigit
   ;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
  :  Backslash 'u' HexDigit HexDigit HexDigit HexDigit
  ;

fragment
ZeroToThree
  :  [0-3]
  ;

// Groovy Escape Sequences

fragment
DollarEscape
  :  Backslash Dollar
  ;

fragment
LineEscape
  :  Backslash LineTerminator
  ;

fragment
LineTerminator
  :  '\r'? '\n' | '\r'
  ;

fragment
SlashEscape
  :  Backslash Slash
```

```
  ;

fragment
Backslash
  :  '\\'
  ;

fragment
Slash
  :  '/'
  ;

fragment
Dollar
  :  '$'
  ;

fragment
GStringQuotationMark
  :  ''
  ;

fragment
SqStringQuotationMark
  :  '\''
  ;

fragment
TdqStringQuotationMark
  :  ''''''
  ;

fragment
TsqStringQuotationMark
  :  '\'\''
  ;

fragment
DollarSlashyGStringQuotationMarkBegin
  :  '$/'
  ;

fragment
DollarSlashyGStringQuotationMarkEnd
  :  '/$'
  ;

fragment
```

```
DollarSlashEscape
  :   '$/'
  ;

fragment
DollarDollarEscape
  :   '$$'
  ;

// §3.10.7 The Null
 Literal
NullLiteral
  :   'null'
  ;

// Groovy Operators

RANGE_INCLUSIVE    : '..';
RANGE_EXCLUSIVE    : '..<';
SPREAD_DOT         : '*.';
SAFE_DOT           : '?.';
SAFE_CHAIN_DOT     : '??.';
ELVIS              : '?:';
METHOD_POINTER     : '.&';
METHOD_REFERENCE   : '::';
REGEX_FIND         : '=~';
REGEX_MATCH        : '==~';
POWER              : '**';
POWER_ASSIGN       : '**=';
SPACESHIP          : '<=>';
IDENTICAL          : '===';
NOT_IDENTICAL      : '!==';
ARROW              : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF     : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;
NOT_IN             : '!in'         { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;


// §3.11 Separators

LPAREN         : '('  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RPAREN         : ')'  { this.exitParen();      } -> popMode;

LBRACE         : '{'  { this.enterParen();
    } -> pushMode(DEFAULT_MODE);
RBRACE         : '}'  { this.exitParen();      } -> popMode;
```

```
LBRACK          : '['  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RBRACK          : ']'  { this.exitParen();      } -> popMode;

SEMI            : ';';
COMMA           : ',';
DOT             : Dot;

// §3.12 Operators

ASSIGN          : '=';
GT              : '>';
LT              : '<';
NOT             : '!';
BITNOT          : '~';
QUESTION        : '?';
COLON           : ':';
EQUAL           : '==';
LE              : '<=';
GE              : '>=';
NOTEQUAL        : '!=';
AND             : '&&';
OR              : '||';
INC             : '++';
DEC             : '--';
ADD             : '+';
SUB             : '-';
MUL             : '*';
DIV             : Slash;
BITAND          : '&';
BITOR           : '|';
XOR             : '^';
MOD             : '%';


ADD_ASSIGN      : '+=';
SUB_ASSIGN      : '-=';
MUL_ASSIGN      : '*=';
DIV_ASSIGN      : '/=';
AND_ASSIGN      : '&=';
OR_ASSIGN
      : '|=';
XOR_ASSIGN      : '^=';
MOD_ASSIGN      : '%=';
LSHIFT_ASSIGN   : '<<=';
RSHIFT_ASSIGN   : '>>=';
URSHIFT_ASSIGN  : '>>>=';
ELVIS_ASSIGN    : '?=';
```

```
// §3.8 Identifiers (must appear after all keywords in the grammar)
CapitalizedIdentifier
  :  JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
  ;

Identifier
  :  JavaLetter JavaLetterOrDigit*
  ;

fragment
IdentifierInGString
  :  JavaLetterInGString JavaLetterOrDigitInGString*
  ;

fragment
JavaLetter
  :  [a-zA-Z$_] // these are the "java letters" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;

fragment
JavaLetterInGString
   :  JavaLetter { _input.LA(-1) != '$' }?
  ;

fragment
JavaLetterOrDigit
  :  [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;

fragment
JavaLetterOrDigitInGString
  :  JavaLetterOrDigit  { _input.LA(-1) != '$' }?
  ;

fragment
```

```
ShCommand
  :   ~[\r\n\uFFFF]*
  ;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS  : ([ \t]+ | LineEscape+) -> skip
  ;

// Inside (...) and [...] but not {...}, ignore newlines.
NL  : LineTerminator
  { this.ignoreTokenInsideParens(); }
  ;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
  :   '/*' .*? '*/'       { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
  ;

// Single-line comments
SL_COMMENT
  :   '//' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); }             -> type(NL)
  ;

// Script-header comments.
// The very first characters of the file may be "#!".  If so, ignore the first line.
SH_COMMENT
  :   '#!' { require(errorIgnored || 0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); }
ShCommand (LineTerminator '#!' ShCommand)* -> skip
  ;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
  :   . { require(errorIgnored, "Unexpected character: '" + getText().replace("'", "\\'") + "'", -1, false); }
  ;
```

Found in path(s):
* /groovy-3-0-13-sources-jar/GroovyLexer.g4
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
*
 /groovy-3-0-13-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
No license file was found, but licenses were detected in source scan.

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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

Found in path(s):
* /groovy-3-0-13-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
No license file was found, but licenses were detected in source scan.

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* software distributed under the License is distributed on an
* Based on an original grammar released in the PUBLIC DOMAIN

Found in path(s):
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/java/java.g
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/groovy.g
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*/

Found in path(s):
* /groovy-3-0-13-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java
No license file was found, but licenses were detected in source scan.

```
/*
* This file is adapted from the Antlr4 Java grammar which has the following license
*
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*  specific language governing permissions and limitations
*  under the License.
*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
  tokenVocab = GroovyLexer;
  contextSuperClass = GroovyParserRuleContext;
  superClass = AbstractParser;
}

@header {
  import java.util.Map;
```

```
  import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

  public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
     private Map metaDataMap = null;

     public GroovyParserRuleContext() {}

     public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
        super(parent, invokingStateNumber);
     }

     @Override
      public Map<?, ?> getMetaDataMap() {
        return this.metaDataMap;
     }

     @Override
     public void setMetaDataMap(Map<?, ?> metaDataMap) {
        this.metaDataMap = metaDataMap;
     }
  }

  @Override
  public int getSyntaxErrorSource() {
     return GroovySyntaxError.PARSER;
  }

  @Override
  public int getErrorLine() {
     Token token = _input.LT(-1);

     if (null == token) {
        return -1;
     }

     return token.getLine();
  }

  @Override
  public int getErrorColumn() {
     Token token = _input.LT(-1);

     if (null == token) {
        return -1;
     }
```

```
        return token.getCharPositionInLine() + 1 + token.getText().length();
    }
}

// starting point for parsing a groovy file
compilationUnit
    :   nls (packageDeclaration sep?)? scriptStatements? EOF
    ;

scriptStatements
    :   scriptStatement (sep scriptStatement)* sep?
    ;

scriptStatement
    :   importDeclaration
   // Import statement.  Can be used in any scope.  Has "import x as y" also.
    |   typeDeclaration
    // validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
    |   { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
        methodDeclaration[3, 9]
    |   statement
    ;

packageDeclaration
    :   annotationsOpt PACKAGE qualifiedName
    ;

importDeclaration
    :   annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
    ;


typeDeclaration
    :   classOrInterfaceModifiersOpt classDeclaration
    ;

modifier
    :   classOrInterfaceModifier
    |   m=(   NATIVE
          |   SYNCHRONIZED
          |   TRANSIENT
          |   VOLATILE
          |   DEF
          |   VAR
          )
    ;
```

```
modifiersOpt
  :  (modifiers nls)?
  ;

modifiers
  :  modifier (nls modifier)*
  ;

classOrInterfaceModifiersOpt
  :  (classOrInterfaceModifiers
       NL* /* Use `NL*` here for better performance,
 so DON'T replace it with `nls` */
     )?
  ;

classOrInterfaceModifiers
  :  classOrInterfaceModifier (nls classOrInterfaceModifier)*
  ;

classOrInterfaceModifier
  :  annotation       // class or interface
  |  m=(   PUBLIC     // class or interface
       |  PROTECTED  // class or interface
       |  PRIVATE    // class or interface
       |  STATIC     // class or interface
       |  ABSTRACT   // class or interface
       |  FINAL      // class only -- does not apply to interfaces
       |  STRICTFP   // class or interface
       |  DEFAULT    // interface only -- does not apply to classes
       )
  ;

variableModifier
  :  annotation
  |  m=( FINAL
       | DEF
       | VAR
       // Groovy supports declaring local variables as instance/class fields,
       // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
       // e.g. import groovy.transform.*; def a = { @Field public List awe
 = [1, 2, 3] }
       // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
       // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
       | PUBLIC
       | PROTECTED
```

```
        | PRIVATE
        | STATIC
        | ABSTRACT
        | STRICTFP
        )
  ;

variableModifiersOpt
  :  (variableModifiers nls)?
  ;

variableModifiers
  :  variableModifier (nls variableModifier)*
  ;

typeParameters
  :  LT nls typeParameter (COMMA nls typeParameter)* nls GT
  ;

typeParameter
  :  className (EXTENDS nls typeBound)?
  ;

typeBound
  :  type (BITAND nls type)*
  ;

typeList
  :  type (COMMA nls type)*
  ;



/**
*  t   0: class; 1: interface; 2: enum; 3: annotation; 4:
 trait
*/
classDeclaration
locals[ int t ]
  :  (   CLASS { $t = 0; }
     |   INTERFACE { $t = 1; }
     |   ENUM { $t = 2; }
     |   AT INTERFACE { $t = 3; }
     |   TRAIT { $t = 4; }
     )
     identifier
     (nls typeParameters)?
     (nls EXTENDS nls scs=typeList)?
     (nls IMPLEMENTS nls is=typeList)?
```

```
    nls classBody[$t]
  ;

// t    see the comment of classDeclaration
classBody[int t]
  :  LBRACE nls
     (
        /* Only enum can have enum constants */
        { 2 == $t }?
        enumConstants (nls COMMA)? sep?
     |
     )
     (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
  ;

enumConstants
  :  enumConstant (nls COMMA nls enumConstant)*
  ;

enumConstant
  :  annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
  ;

classBodyDeclaration[int t]
  :  (STATIC nls)? block
  |  memberDeclaration[$t]
  ;

memberDeclaration[int t]
  :  methodDeclaration[0,
 $t]
  |  fieldDeclaration
  |  modifiersOpt classDeclaration
  ;

/**
*  t   0: *class member* all kinds of method declaration AND constructor declaration,
*      1: normal method declaration, 2: abstract method declaration
*      3: normal method declaration OR abstract method declaration
*  ct  9: script, other see the comment of classDeclaration
*/
methodDeclaration[int t, int ct]
  :  modifiersOpt typeParameters? (returnType[$ct] nls)?
     methodName formalParameters
     (
        DEFAULT nls elementValue
     |
        (nls THROWS nls qualifiedClassNameList)?
```

```
        (nls methodBody)?
      )?
  ;

methodName
  : identifier
  | stringLiteral
  ;

returnType[int ct]
  :
    standardType
  | VOID
  ;

fieldDeclaration
  : variableDeclaration[1]
  ;

variableDeclarators
  : variableDeclarator (COMMA nls variableDeclarator)*
  ;

variableDeclarator
  : variableDeclaratorId (nls ASSIGN nls variableInitializer)?
  ;

variableDeclaratorId
  : identifier
  ;

variableInitializer
  : enhancedStatementExpression
  ;

variableInitializers
  : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
  ;

emptyDims
  : (annotationsOpt LBRACK RBRACK)+
  ;

emptyDimsOpt
  : emptyDims?
  ;

standardType
```

```
options { baseContext = type; }
  :  annotationsOpt
     (
        primitiveType
     |
        standardClassOrInterfaceType
     )
     emptyDimsOpt
  ;

type
  :  annotationsOpt
     (
        (
           primitiveType
        |
           // !!! Error Alternative !!!
            VOID
        )
     |
           generalClassOrInterfaceType
     )
     emptyDimsOpt
  ;

classOrInterfaceType
  :  (   qualifiedClassName
     |   qualifiedStandardClassName
     ) typeArguments?
  ;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

  :  qualifiedClassName typeArguments?
  ;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
  :  qualifiedStandardClassName typeArguments?
  ;

primitiveType
  :  BuiltInPrimitiveType
  ;

typeArguments
  :  LT nls typeArgument (COMMA nls typeArgument)* nls GT
```

```
  ;

typeArgument
  : type
  | annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
  ;

annotatedQualifiedClassName
  : annotationsOpt qualifiedClassName
  ;

qualifiedClassNameList
  : annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
  ;

formalParameters
  : LPAREN formalParameterList? rparen
  ;

formalParameterList
  : (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
  ;

thisFormalParameter
  : type THIS
  ;

formalParameter
  : variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
  ;

methodBody
  : block
  ;

qualifiedName
  : qualifiedNameElement
 (DOT qualifiedNameElement)*
  ;

/**
*  Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
*  for them in package names for better integration with existing Java packages
*/
qualifiedNameElement
  : identifier
  | DEF
  | IN
```

```
  | AS
  | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  : qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  : qualifiedNameElements className (DOT className)*
  ;

literal
  : IntegerLiteral                                    #integerLiteralAlt
  | FloatingPointLiteral                              #floatingPointLiteralAlt
  | stringLiteral                                     #stringLiteralAlt
  | BooleanLiteral                                    #booleanLiteralAlt
  | NullLiteral
                                          #nullLiteralAlt
  ;

// GSTRING

gstring
  : GStringBegin gstringValue (GStringPart  gstringValue)* GStringEnd
  ;

gstringValue
  : gstringPath
  | closure
  ;

gstringPath
  : identifier GStringPathPart*
  ;


// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
  : lambdaParameters nls ARROW nls lambdaBody
  ;

// JAVA STANDARD LAMBDA EXPRESSION
```

```
standardLambdaExpression
  :  standardLambdaParameters nls ARROW nls lambdaBody
  ;

lambdaParameters
options { baseContext = standardLambdaParameters; }
  :  formalParameters

  // { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
  // So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
//   |  variableDeclaratorId
  ;

standardLambdaParameters
  :  formalParameters
  |
  variableDeclaratorId
  ;

lambdaBody
  :  block
  |  statementExpression
  ;

// CLOSURE
closure
  :  LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
  ;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
  :  closure
  |  lambdaExpression
  ;

blockStatementsOpt
  :  blockStatements?
  ;

blockStatements
  :  blockStatement (sep blockStatement)* sep?
  ;

// ANNOTATIONS

annotationsOpt
  :  (annotation (nls annotation)* nls)?
```

```
  ;

annotation
  :  AT annotationName (nls LPAREN elementValues? rparen)?
  ;

elementValues
  :  elementValuePairs
  |  elementValue
  ;

annotationName : qualifiedClassName ;

elementValuePairs
  :  elementValuePair (COMMA elementValuePair)*
  ;

elementValuePair
  :  elementValuePairName nls ASSIGN nls elementValue
  ;

elementValuePairName
  :  identifier
  |  keywords
  ;

// TODO verify the potential performance issue
 because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  :  elementValueArrayInitializer
  |  annotation
  |  expression
  ;

elementValueArrayInitializer
  :  LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS

block
  :  LBRACE sep? blockStatementsOpt RBRACE
  ;

blockStatement
  :  localVariableDeclaration
  |  statement
  ;
```

```
localVariableDeclaration
  :  { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
     variableDeclaration[0]
  ;

/**
*  t   0: local variable declaration; 1: field declaration
*/
variableDeclaration[int t]
  :  modifiers nls
     (   type? variableDeclarators
     |   typeNamePairs nls ASSIGN nls variableInitializer
     )
  |
     type variableDeclarators
  ;

typeNamePairs
  :  LPAREN typeNamePair (COMMA typeNamePair)* rparen
  ;

typeNamePair
  :  type? variableDeclaratorId
  ;

variableNames
   :   LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
  ;

conditionalStatement
  :  ifElseStatement
  |  switchStatement
  ;

ifElseStatement
  :  IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
  ;

switchStatement
  :  SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
  ;

loopStatement
  :  FOR LPAREN forControl rparen nls statement                                  #forStmtAlt
  |  WHILE expressionInPar nls statement                                       #whileStmtAlt
  |  DO nls statement nls WHILE expressionInPar                                  #doWhileStmtAlt
  ;
```

```
continueStatement
  : CONTINUE
    identifier?
  ;

breakStatement
  : BREAK
    identifier?
  ;

tryCatchStatement
  : TRY resources? nls block
    (nls catchClause)*
    (nls finallyBlock)?
   ;

assertStatement
  : ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
  ;

statement
  : block                                                    #blockStmtAlt
  | conditionalStatement                                     #conditionalStmtAlt
  | loopStatement                                            #loopStmtAlt
  | tryCatchStatement                                        #tryCatchStmtAlt
  | SYNCHRONIZED expressionInPar nls block                   #synchronizedStmtAlt
  | RETURN expression?                                       #returnStmtAlt
  | THROW expression                                         #throwStmtAlt
  | breakStatement
                                                             #breakStmtAlt
  | continueStatement                                        #continueStmtAlt
  | identifier COLON nls statement                           #labeledStmtAlt
  | assertStatement                                          #assertStmtAlt
  | localVariableDeclaration                                 #localVariableDeclarationStmtAlt
  | statementExpression                                      #expressionStmtAlt
  | SEMI                                                     #emptyStmtAlt
  ;

catchClause
  : CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
  ;

catchType
  : qualifiedClassName
 (BITOR qualifiedClassName)*
  ;
```

```
finallyBlock
  :  FINALLY nls block
  ;

resources
  :  LPAREN nls resourceList sep? rparen
  ;

resourceList
  :  resource (sep resource)*
  ;

resource
  :  localVariableDeclaration
  |  expression
  ;


/** Matches cases then statements, both of which are mandatory.
*  To handle empty cases at the end, we add switchLabel* to statement.
*/
switchBlockStatementGroup
  :  switchLabel (nls switchLabel)* nls blockStatements
  ;

switchLabel
  :  CASE expression COLON
  |  DEFAULT COLON
  ;

forControl
  :  enhancedForControl
  |  classicalForControl
  ;

enhancedForControl
  :  variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
  :  forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  :  localVariableDeclaration
  |  expressionList[false]
  ;
```

```
forUpdate
  :  expressionList[false]
  ;


// EXPRESSIONS

castParExpression
  :
 LPAREN type rparen
  ;

parExpression
  :  expressionInPar
  ;

expressionInPar
  :  LPAREN enhancedStatementExpression rparen
  ;

expressionList[boolean canSpread]
  :  expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
  ;

expressionListElement[boolean canSpread]
  :  MUL? expression
  ;

enhancedStatementExpression
  :  statementExpression
  |  standardLambdaExpression
  ;

statementExpression
  :  commandExpression                #commandExprAlt
  ;

postfixExpression
  :  pathExpression op=(INC | DEC)?
  ;

expression
  // must come before postfixExpression to resovle the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
  :  castParExpression castOperandExpression                                  #castExprAlt

  // qualified names, array expressions, method invocation, post inc/dec
  |  postfixExpression
```

```
        #postfixExprAlt

// ~(BNOT)/!(LNOT) (level 1)
|   (BITNOT | NOT) nls expression                                  #unaryNotExprAlt

// math power operator (**) (level 2)
|   left=expression op=POWER nls right=expression                  #powerExprAlt

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
|   op=(INC | DEC | ADD | SUB) expression                          #unaryAddExprAlt

// multiplication/division/modulo (level 4)
|   left=expression nls op=(MUL | DIV | MOD) nls right=expression      #multiplicativeExprAlt

// binary addition/subtraction (level 5)
|   left=expression op=(ADD | SUB) nls right=expression             #additiveExprAlt

// bit shift expressions (level 6)
|   left=expression nls
      (         (   dlOp=LT LT
                |   tgOp=GT GT GT
                |   dgOp=GT GT

            )
      |   rangeOp=(    RANGE_INCLUSIVE
                |    RANGE_EXCLUSIVE
                )
      ) nls
    right=expression                                              #shiftExprAlt

// boolean relational expressions (level 7)
|   left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type      #relationalExprAlt
|   left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN)  nls right=expression     #relationalExprAlt

// equality/inequality (==/!=) (level 8)
|   left=expression nls
      op=(    IDENTICAL
        |   NOT_IDENTICAL
        |   EQUAL
        |   NOTEQUAL
        |   SPACESHIP
        ) nls
    right=expression                                              #equalityExprAlt

// regex find and match (=~ and ==~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...
```

```
  // 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
  |   left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression            #regexExprAlt

  // bitwise or non-short-circuiting and (&)  (level 9)
  |   left=expression nls op=BITAND nls right=expression                                #andExprAlt

  // exclusive or (^)  (level 10)
  |   left=expression nls op=XOR nls right=expression                                   #exclusiveOrExprAlt

  // bitwise or non-short-circuiting or (|)  (level 11)
  |   left=expression nls op=BITOR nls right=expression                                 #inclusiveOrExprAlt

  // logical and (&&)  (level 12)
  |   left=expression nls op=AND nls right=expression                                   #logicalAndExprAlt

  // logical or (||)  (level 13)
  |   left=expression nls op=OR nls right=expression                                    #logicalOrExprAlt

  // conditional test (level 14)
  |   <assoc=right>
 con=expression nls
     (   QUESTION nls tb=expression nls COLON nls
     |   ELVIS nls
     )
     fb=expression                                                                    #conditionalExprAlt

  // assignment expression (level 15)
  // "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
  |   <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
  |   <assoc=right> left=expression nls
                  op=(   ASSIGN
                     |   ADD_ASSIGN
                     |   SUB_ASSIGN
                     |   MUL_ASSIGN
                     |   DIV_ASSIGN
                     |   AND_ASSIGN
                     |   OR_ASSIGN
                     |   XOR_ASSIGN
                     |   RSHIFT_ASSIGN
                     |   URSHIFT_ASSIGN
                     |   LSHIFT_ASSIGN
                      |   MOD_ASSIGN
                     |   POWER_ASSIGN
                     |   ELVIS_ASSIGN
                     ) nls
                enhancedStatementExpression                                       #assignmentExprAlt
  ;
```

```
castOperandExpression
options { baseContext = expression; }
  :  castParExpression castOperandExpression                          #castExprAlt

  |  postfixExpression                                                 #postfixExprAlt

  // ~(BNOT)/!(LNOT)
  |  (BITNOT | NOT) nls castOperandExpression                          #unaryNotExprAlt

  // ++(prefix)/--(prefix)/+(unary)/-(unary)
  |  op=(INC | DEC | ADD | SUB) castOperandExpression                  #unaryAddExprAlt
  ;

commandExpression
  :  expression
     (
        { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
        argumentList
     |
        /* if pathExpression is a method call, no need to have any more arguments */
     )

     commandArgument*
  ;

commandArgument
  :  commandPrimary
     // what follows is either a normal argument, parens,
     // an appended block, an index operation, or nothing
     // parens (a b already processed):
     //      a b c() d e -> a(b).c().d(e)
     //      a b c()() d e -> a(b).c().call().d(e)
     // index (a b already processed):
     //      a b c[x] d e -> a(b).c[x].d(e)
     //      a b c[x][y] d e -> a(b).c[x][y].d(e)
     // block (a b already processed):
     //      a b c {x} d e -> a(b).c({x}).d(e)
     //
     // parens/block completes method call
     // index makes method call to property get with index
     //
     (   pathElement+
     |   argumentList
     )?
  ;

/**
```

```
*  A "path expression" is a name or other primary, possibly qualified by various
*  forms of dot, and/or
 followed by various kinds of brackets.
*  It can be used for value or assigned to, or else further qualified, indexed, or called.
*  It is called a "path" because it looks like a linear path through a data structure.
*  Examples:  x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
*  (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
*  General expressions are built up from path expressions, using operators like '+' and '='.
*
*  t   0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
*      6: non-static inner class creator
*/
pathExpression returns [int t]
  :  (
        primary
     |
        // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
        { _input.LT(2).getType() == DOT }?
        STATIC
     ) (pathElement { $t = $pathElement.t; })*
  ;

pathElement returns [int t]
  :  nls

 (
        DOT nls NEW creator[1]
        { $t = 6; }
     |
        // AT: foo.@bar selects the field (or attribute), not property
        (
           (   DOT                // The all-powerful dot.
           |   SPREAD_DOT         // Spread operator:  x*.y  ===  x?.collect{it.y}
           |   SAFE_DOT           // Optional-null operator:  x?.y  === (x==null)?null:x.y
           |   SAFE_CHAIN_DOT     // Optional-null chain operator:  x??.y.z  === x?.y?.z
           ) nls (AT | nonWildcardTypeArguments)?
        |
           METHOD_POINTER nls     // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
        |
           METHOD_REFERENCE nls   // Method reference: System.out::println
        )
        namePart
        { $t = 1; }

        // Can always append a block, as foo{bar}
     |  closureOrLambdaExpression
```

```
        { $t = 3; }
    )

  |  arguments

   { $t = 2; }

  // Element selection is always an option, too.
  // In Groovy, the stuff between brackets is a general argument list,
  // since the bracket operator is transformed into a method call.
  |  indexPropertyArgs
     { $t = 4; }

  |  namedPropertyArgs
     { $t = 5; }
  ;

/**
*  This is the grammar for what can follow a dot:  x.a, x.@a, x.&a, x.'a', etc.
*/
namePart
  :
     (  identifier

     // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
     |  stringLiteral

     |  dynamicMemberName

     /* just a PROPOSAL, which has not been implemented yet!
     // PROPOSAL, DECIDE:  Is this inline form of the 'with' statement useful?
     // Definition:  a.{foo} === {with(a) {foo}}
     // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
     |  block
     */

     // let's allow common keywords as property names
     |
  keywords
     )
  ;

/**
*  If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
*  and the member selection is done only at runtime.  This forces a statically unchecked member access.
*/
dynamicMemberName
  :  parExpression
```

```
  |  gstring
  ;

/** An expression may be followed by [...].
*  Unlike Java, these brackets may contain a general argument list,
*  which is passed to the array element operator, which can make of it what it wants.
*  The brackets may also be empty, as in T[].  This is how Groovy names array types.
*/
indexPropertyArgs
  :  QUESTION? LBRACK expressionList[true]? RBRACK
  ;

namedPropertyArgs
  :  QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
  ;

primary
  :
     // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
HashMap<String, Integer>::new
     // Though this is not a graceful solution, it is much faster than replacing `builtInType`
 with `type`
     identifier typeArguments?                                  #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  NEW nls creator[0]                                       #newPrmrAlt
  |  THIS                                                     #thisPrmrAlt
  |  SUPER                                                    #superPrmrAlt
  |  parExpression                                            #parenPrmrAlt
  |  closureOrLambdaExpression                                #closureOrLambdaExpressionPrmrAlt
  |  list                                                     #listPrmrAlt
  |  map                                                      #mapPrmrAlt
  |  builtInType                                              #builtInTypePrmrAlt
  ;

namedPropertyArgPrimary
options { baseContext = primary; }
  :  identifier                                               #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  parExpression                                            #parenPrmrAlt
  |  list                                                     #listPrmrAlt
  |  map                                                      #mapPrmrAlt
  ;

namedArgPrimary
options { baseContext = primary; }
  :  identifier
```

```
                                                    #identifierPrmrAlt
  | literal                                                  #literalPrmrAlt
  | gstring                                                   #gstringPrmrAlt
  ;

commandPrimary
options { baseContext = primary; }
  : identifier                                               #identifierPrmrAlt
  | literal                                                  #literalPrmrAlt
  | gstring                                                  #gstringPrmrAlt
  ;

list
  : LBRACK expressionList[true]? COMMA? RBRACK
  ;

map
  : LBRACK
    (  mapEntryList COMMA?
    | COLON
    )
    RBRACK
  ;

mapEntryList
  : mapEntry (COMMA mapEntry)*
  ;

namedPropertyArgList
options { baseContext = mapEntryList; }
  : namedPropertyArg
 (COMMA namedPropertyArg)*
  ;

mapEntry
  : mapEntryLabel COLON nls expression
  | MUL COLON nls expression
  ;

namedPropertyArg
options { baseContext = mapEntry; }
  : namedPropertyArgLabel COLON nls expression
  | MUL COLON nls expression
  ;

namedArg
options { baseContext = mapEntry; }
  : namedArgLabel COLON nls expression
```

```
  |  MUL COLON nls expression
  ;

mapEntryLabel
  :  keywords
  |  primary
  ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedArgPrimary
  ;

/**
*  t 0: general creation; 1: non-static inner class creation
*/
creator[int t]
  :  createdName
     (  nls arguments anonymousInnerClassDeclaration[0]?
     |  dim+ (nls arrayInitializer)?
     )
  ;

dim
  :  annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  :  LBRACE nls (variableInitializers
 nls)? RBRACE
  ;

/**
*  t   0: anonymous inner class; 1: anonymous enum
*/
anonymousInnerClassDeclaration[int t]
  :  classBody[0]
  ;

createdName
  :  annotationsOpt
```

```
    (   primitiveType
    |   qualifiedClassName typeArgumentsOrDiamond?
    )
  ;

nonWildcardTypeArguments
  :   LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  :   LT GT
  |   typeArguments
  ;

arguments
  :   LPAREN enhancedArgumentListInPar? COMMA? rparen
  ;

argumentList
options { baseContext = enhancedArgumentListInPar; }
  :   firstArgumentListElement
    (   COMMA nls
        argumentListElement
    )*
  ;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  :   firstEnhancedArgumentListElement
    (   COMMA nls
        enhancedArgumentListElement
    )*
  ;

enhancedArgumentListInPar
  :   enhancedArgumentListElement
    (   COMMA nls
        enhancedArgumentListElement

)*
  ;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  :   expressionListElement[true]
  |   namedArg
  ;
```

```
argumentListElement
options { baseContext = enhancedArgumentListElement; }
  :  expressionListElement[true]
  |  namedPropertyArg
  ;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedArg
  ;

enhancedArgumentListElement
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedPropertyArg
  ;

stringLiteral
  :  StringLiteral
  ;

className
  :  CapitalizedIdentifier
  ;

identifier
  :  Identifier
  |  CapitalizedIdentifier
  |  VAR
  |  IN
// |  DEF
  |  TRAIT
  |  AS
  ;

builtInType
  :  BuiltInPrimitiveType
  |  VOID
  ;

keywords
  :  ABSTRACT
  |  AS
  |  ASSERT
  |  BREAK
  |  CASE
```

| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
| FINAL
| FINALLY
| FOR
| GOTO
| IF
| IMPLEMENTS
| IMPORT
| IN
| INSTANCEOF
| INTERFACE
| NATIVE
| NEW
| PACKAGE
| RETURN
| STATIC
| STRICTFP
| SUPER
| SWITCH
| SYNCHRONIZED
| THIS
| THROW
| THROWS
| TRANSIENT
| TRAIT
| THREADSAFE
| TRY
| VAR
| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

| BuiltInPrimitiveType
| VOID

| PUBLIC
| PROTECTED

```
  |   PRIVATE
  ;

rparen
  :   RPAREN
  ;

nls
  :   NL*
  ;

sep :   (NL | SEMI)+
  ;
```

Found in path(s):
* /groovy-3-0-13-sources-jar/GroovyParser.g4
No license file was found, but licenses were detected in source scan.

```
/** Java 1.5 Recognizer
*
* Run 'java Main [-showtree] directory-full-of-java-files'
*
* [The -showtree option pops up a Swing frame that shows
*  the AST constructed from the parser.]
*
* Run 'java Main <directory full of java files>'
*
* Contributing authors:
*      Jeremy Rayner       groovy@ross-rayner.com
*  John Mitchell  johnm@non.net
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*  Allan Jacobs  Allan.Jacobs@eng.sun.com
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*  John Pybus  john@pybus.org
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*  fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
*  added tree construction
*  fixed definition of WS,comments for mac,pc,unix newlines
 *  added unary plus
* Version 1.11 (Nov 20, 1998)
*  Added "shutup" option to turn off last ambig warning.
```

* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
*   It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly
 (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :(Fixed.
* Tree parser didn't like (expr).something; fixed.
* Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized
* statements.
* Version 1.18 (August 12, 2001)
*   Terence updated to Java 2 Version 1.3 by
* observing/combining work of Allan Jacobs and Steve
* Messick. Handles 1.3 src. Summary:
* o primary didn't include boolean.class kind of thing
*   o constructor calls parsed explicitly now:
*   see explicitConstructorInvocation
* o add strictfp
 modifier
*   o missing objBlock after new expression in tree grammar
* o merged local class definition alternatives, moved after declaration
* o fixed problem with ClassName.super.field
*   o reordered some alternatives to make things more efficient
* o long and double constants were not differentiated from int/float
* o whitespace rule was inefficient: matched only one char

```
*  o  add an examples directory with some nasty 1.3 cases
*  o  made Main.java use buffered IO and a Reader for Unicode support
*  o  supports UNICODE?
*     Using Unicode charVocabulay makes code file big, but only
*     in the bitsets at the end. I need to make ANTLR generate
*     unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*  Terence added in nice fixes by John Pybus concerning floating
*  constants and problems with super() calls.  John did a nice
*  reorg of the primary/postfix expression stuff to read better
*  and makes f.g.super() parse properly (it was
 METHOD_CALL not
*  a SUPER_CTOR_CALL).  Also:
*
*  o  "finally" clause was a root...made it a child of "try"
*  o  Added stuff for asserts too for Java 1.4, but *commented out*
*     as it is not backward compatible.
*
* Version 1.20 (October 27, 2002)
*
*   Terence ended up reorging John Pybus' stuff to
*   remove some nondeterminisms and some syntactic predicates.
*   Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
*
*   Ternary ?: operator wasn't working as array name:
*    (isBig ? bigDigits : digits)[i];
*
*   Checked parser/tree parser on source for
*    Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*  and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
*  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
 *  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
* Version 1.21.2 (March, 2003)
*   Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*   Notes:
*   o We only allow the "extends" keyword and not the "implements"
*  keyword, since that's what JSR14 seems to imply.
*   o Thanks to Monty Zukowski for his help on the antlr-interest
*  mail list.
*   o Thanks to Alan Eliasen for testing the grammar over his
```

```
*  Fink source base
*
* Version 1.22 (July, 2004)
*   Changes by Michael Studman to support Java 1.5 language extensions
*   Notes:
*   o Added support for annotations types
*   o Finished off Matt Quail's generics enhancements to support bound type arguments
*   o Added support for new for statement syntax
*   o Added support for static import syntax
*   o Added support for enum types
*   o Tested against JDK 1.5 source base and source base of jdigraph project
*   o Thanks to Matt Quail
 for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
*   Bug/omission fixes for Java 1.5 language support
*   o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
*  spotting this
*   o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*  parameters to be recognised as type arguments.
*   o Enabled type parameters on constructors, annotations on enum constants
*  and package definitions
*   o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
*   Slight refactoring of Java 1.5 language support
*   o Refactored for/"foreach" productions so that original literal "for" literal
*     is still used but the for sub-clauses vary by token type
*   o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
*   Bug fixes as identified by Michael
 Stahl; clean up of tabs/spaces
*       and other refactorings
*   o Fixed typeParameters omission in identPrimary and newStatement
*   o Replaced GT reconciliation code with simple semantic predicate
*   o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*   o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
*    Small bux fixes
*    o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*    o Added typeArguments to postfixExpression productions for anonymous inner class super
*      constructor invocation, e.g. new Outer().<String>super()
*    o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.j.1
*   Changes by Jeremy Rayner to support java2groovy tool
```

*   o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*   and have made some changes to enable use by java2groovy tool (Jan 2007)
 *
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
No license file was found, but licenses were detected in source scan.

/** JSR-241 Groovy Recognizer.
*
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
*
* Contributing authors:
*   John Mitchell   johnm@non.net
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*   Martin Kempf   mkempf@hsr.ch
*   Reto Kleeb   rkleeb@hsr.ch
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*   fixed bug in octal def (0..7 not 0..8)
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*   added tree construction
*   fixed definition of WS,comments for mac,pc,unix newlines
*   added unary plus
* Version 1.11 (Nov 20, 1998)
*   Added "shutup" option to turn off last ambig warning.
*   Fixed inner class def to allow named class defs as statements
*   synchronized requires compound not simple statement
*   add [] after builtInType DOT class in primaryExpression
*   "const" is reserved but not valid..removed from modifiers

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 grammar.
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*		Didn't have (stat)? for else clause in tree parser.
*		Didn't gen ASTs for interface extends.  Updated tree parser too.
*		Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*		Allowed final/abstract on local classes.
*		Removed local interfaces from methods
*		Put instanceof precedence where it belongs...in relationalExpr
*			It also had expr not type as arg; fixed it.
*		Missing ! on SEMI in classBlock
*		fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*		fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*		Screwed up rule with instanceof in it. :(  Fixed.
*		Tree parser didn't like (expr).something; fixed.
*		Allowed multiple inheritance
 in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*		Extending an interface built a wacky tree: had extra EXTENDS.
*		Tree grammar didn't allow multiple superinterfaces.
*		Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*		ESC lexer rule allowed 399 max not 377 max.
*		java.tree.g didn't handle the expression of synchronized
*		statements.
* Version 1.18 (August 12, 2001)
*		Terence updated to Java 2 Version 1.3 by
*		observing/combining work of Allan Jacobs and Steve
*		Messick.  Handles 1.3 src.  Summary:
*		o  primary didn't include boolean.class kind of thing
*		o  constructor calls parsed explicitly now:
*		   see explicitConstructorInvocation
*		o  add strictfp modifier
*		o  missing objBlock after new expression in tree grammar
*		o
  merged local class definition alternatives, moved after declaration
*		o  fixed problem with ClassName.super.field
*		o  reordered some alternatives to make things more efficient
*		o  long and double constants were not differentiated from int/float
*		o  whitespace rule was inefficient: matched only one char
*		o  add an examples directory with some nasty 1.3 cases
*		o  made Main.java use buffered IO and a Reader for Unicode support
*		o  supports UNICODE?
```

```
*              Using Unicode charVocabulary makes code file big, but only
*              in the bitsets at the end. I need to make ANTLR generate
*              unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*            Terence added in nice fixes by John Pybus concerning floating
*            constants and problems with super() calls.  John did a nice
*            reorg of the primary/postfix expression
 stuff to read better
*            and makes f.g.super() parse properly (it was METHOD_CALL not
*            a SUPER_CTOR_CALL).  Also:
*
*            o  "finally" clause was a root...made it a child of "try"
*            o  Added stuff for asserts too for Java 1.4, but *commented out*
*              as it is not backward compatible.
*
* Version 1.20 (October 27, 2002)
*
*       Terence ended up reorging John Pybus' stuff to
*       remove some nondeterminisms and some syntactic predicates.
*       Note that the grammar is stricter now; e.g., this(...) must
*     be the first statement.
*
*       Trinary ?: operator wasn't working as array name:
*             (isBig ? bigDigits : digits)[i];
*
*       Checked parser/tree parser on source for
*             Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*            and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
 *  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
*  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
* Version 1.21.2 (March, 2003)
*       Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*       Notes:
*       o We only allow the "extends" keyword and not the "implements"
*            keyword, since that's what JSR14 seems to imply.
*       o Thanks to Monty Zukowski for his help on the antlr-interest
*            mail list.
*       o Thanks to Alan Eliasen for testing the grammar over his
*            Fink source base
*
* Version 1.22 (July, 2004)
```

```
*       Changes by Michael Studman to support Java 1.5 language extensions
*       Notes:
*       o Added support for annotations types
*       o Finished off Matt Quail's generics
 enhancements to support bound type arguments
*       o Added support for new for statement syntax
*       o Added support for static import syntax
*       o Added support for enum types
*       o Tested against JDK 1.5 source base and source base of jdigraph project
*       o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
*       Bug/omission fixes for Java 1.5 language support
*       o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
*           spotting this
*       o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*           parameters to be recognised as type arguments.
*       o Enabled type parameters on constructors, annotations on enum constants
*           and package definitions
*       o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
 *       Slight refactoring of Java 1.5 language support
*       o Refactored for/"foreach" productions so that original literal "for" literal
*         is still used but the for sub-clauses vary by token type
*       o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
*       Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
*       and other refactorings
*       o Fixed typeParameters omission in identPrimary and newStatement
*       o Replaced GT reconcilliation code with simple semantic predicate
*       o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*       o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
*    Small bux fixes
*    o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*    o Added typeArguments to postfixExpression
 productions for anonymous inner class super
*      constructor invocation, e.g. new Outer().<String>super()
*    o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
*    o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*      and have applied the groovy.diff from java.g (1.22) by John Rose
*      back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
```

* Version 1.22.4.g.2
*   o mkempf, rkleeb, Dec 2007
*   o fixed various rules so that they call the correct Create Method
*   to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /groovy-3-0-13-sources-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

1.524 apache-commons-text 1.4

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1.525 zlib 1.2.13

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1.526 scala 2.13.9

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the
Tuple3,
or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^
3 errors
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* /groovy-json-3-0-13-sources-jar/org/apache/groovy/json/internal/Exceptions.java
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* /groovy-json-3-0-13-sources-jar/groovy/json/StreamingJsonBuilder.java
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* /groovy-json-3-0-13-sources-jar/org/apache/groovy/json/internal/CharBuf.java
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1.532 swagger-jaxrs2 2.2.0

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1.534 log4j-jul 2.19.0

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lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c

lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.547 scala-java8-compat_2.13 1.0.0

1.547.1 Available under license :

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*/

Found in path(s):
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/concurrent/java8/FutureConvertersImpl.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/ScalaStreamSupport.java
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/wrappers/IteratorPrimitiveLongWrapper.java
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/converterImpl/AccumulatorConverters.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/wrappers/IteratorPrimitiveDoubleWrapper.java
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/FutureConverters.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/converterImpl/Accumulates.scala
*

/scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/StreamConverters.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/OptionConverters.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/DurationConverters.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/WrapperTraits.scala
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/wrappers/IteratorPrimitiveIntWrapper.java
* /scala-java8-compat-2-13-1-0-0-sources-2-jar/scala/compat/java8/PrimitiveIteratorConversions.scala

1.548 scala-collection-compat_2.13 2.4.4

1.548.1 Available under license :

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/*
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*/

Found in path(s):
* /scala-collection-compat-2-13-2-4-4-sources-2-jar/scala/collection/compat/package.scala
* /scala-collection-compat-2-13-2-4-4-sources-2-jar/scala/collection/compat/immutable/package.scala

1.549 netty 4.1.86.Final

1.549.1 Available under license :

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>

<artifactId>jctools-core</artifactId>
<groupId>org.jctools</groupId>
<version>3.1.0</version>
<name>Java Concurrency Tools Core Library</name>
<description>Java Concurrency Tools Core Library</description>
<packaging>bundle</packaging>

<dependencies>
<dependency>

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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>
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   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-source-plugin</artifactId>
   <version>3.2.0</version>
   <executions>
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    <execution>
     <id>attach-sources</id>
     <phase>verify</phase>
     <goals>
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     </goals>
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   </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>
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     </goals>
    </execution>
   </executions>
  </plugin>
 </plugins>
</build>

<distributionManagement>
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  <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>
```

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 </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>

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 <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-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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Found in path(s):
* /netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http2/native-image.properties
* /netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties
* /netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http/native-image.properties
* /netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/native-image/io.netty/netty-buffer/native-image.properties
* /netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/native-image/io.netty/netty-common/native-image.properties
* /netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties
*
/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties
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Found in path(s):
* /netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-common/pom.xml
* /netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml
* /netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml
*

/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml
* /netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler/pom.xml
* /netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml
* /netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-socks/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.buffer
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.buffer
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855150807
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurre
nt;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.nett
y.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opti
onal,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.e
clipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.86"
,io.netty.buffer.search;uses:="io.netty.util";version="4.1.86"
Bundle-Name: Netty/Buffer
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-buffer/

Found in path(s):
* /netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/MANIFEST.MF
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Manifest-Version: 1.0
Implementation-Title: Netty/Common
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.common

Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.common
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855137664
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.anno
tate;resolution:=optional,javax.security.cert;resolution:=optional,or
g.apache.commons.logging;resolution:=optional;version="[1.2,2)",org.a
pache.log4j;resolution:=optional;version="[2.17,3)",org.apache.loggin
g.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.lo
 g4j.message;resolution:=optional;version="[2.17,3)",org.apache.loggin
g.log4j.spi;resolution:=optional;version="[2.17,3)",org.slf4j;resolut
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l;version="[1.7,2)",org.slf4j.spi;resolution:=optional;version="[1.7,
2)",reactor.blockhound;resolution:=optional,reactor.blockhound.integr
ation;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
DynamicImport-Package: *
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty
.util.internal";version="4.1.86",io.netty.util.collection;version="4.
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oncurrent,io.netty.util.internal.logging,javax.security.cert,reactor.
blockhound,reactor.blockhound.integration";version="4.1.86",io.netty.
util.internal.logging;version="4.1.86",io.netty.util.internal.svm;ver
 sion="4.1.86"
Bundle-Name: Netty/Common
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-common/

Found in path(s):
* /netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

Found in path(s):
* /netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/HTTP
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.codec.http
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-http
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855212920
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty

Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optiona
l,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1
,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;ver
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al,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.ecl
ipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.
netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.net
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es:="io.netty.channel,io.netty.handler.codec.http";version="4.1.86",i
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andler.stream,io.netty.util";version="4.1.86",io.netty.handler.codec.
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channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.u
til";version="4.1.86"
Bundle-Name:
 Netty/Codec/HTTP
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-codec-http/

Found in path(s):
* /netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/Socks
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.socks
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-socks
Implementation-Version: 4.1.86.Final
Built-By: root
Bnd-LastModified: 1670851140833
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)"
,io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logg
ing;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jet
ty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;ve
 rsion="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.socks;uses:="io.netty.buffer,io
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netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.86",i
o.netty.handler.codec.socksx.v5;uses:="io.netty.buffer,io.netty.chann
el,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1
.86"
Bundle-Name: Netty/Codec/Socks
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_352
Implementation-URL: https://netty.io/netty-codec-socks/

Found in path(s):
* /netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.

Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855167311
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;ve
rsion="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurr
ent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.net
ty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opt
ional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.
 eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.re
solver,io.netty.util";version="4.1.86",io.netty.channel;uses:="io.net
ty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";
version="4.1.86",io.netty.channel.embedded;uses:="io.netty.channel";v
ersion="4.1.86",io.netty.channel.group;uses:="io.netty.channel,io.net
ty.util.concurrent";version="4.1.86",io.netty.channel.internal;versio
n="4.1.86",io.netty.channel.local;uses:="io.netty.channel";version="4
.1.86",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,i
o.netty.util,io.netty.util.concurrent";version="4.1.86",io.netty.chan
nel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.86",io.
netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.nett
 y.util.concurrent";version="4.1.86",io.netty.channel.socket;uses:="io
.netty.buffer,io.netty.channel,io.netty.util";version="4.1.86",io.net
ty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.nett
y.channel.nio,io.netty.channel.socket";version="4.1.86",io.netty.chan
nel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.chann
el.oio,io.netty.channel.socket";version="4.1.86"
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-transport/

Found in path(s):
* /netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.epoll.linux.x86_64
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-epoll
Implementation-Version: 4.1.86.Final
Built-By: root
Bnd-LastModified: 1670851257748
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="
[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Transport/Native/Epoll
Bundle-Version:
 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_352
Implementation-URL: https://netty.io/netty-transport-native-epoll/

Found in path(s):
* /netty-zip/netty/netty-transport-native-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Codec
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855178734
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.aayushatharva.brotli4j;resolution:=optional,com.aa
yushatharva.brotli4j.decoder;resolution:=optional,com.aayushatharva.b
rotli4j.encoder;resolution:=optional,com.github.luben.zstd;version="[
1.5,2)";resolution:=optional,com.google.protobuf;version="[2.6,3)";re

solution:=optional,com.google.protobuf.nano;resolution:=optional,com.
jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)"
;resolution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolut
ion:=optional,com.ning.compress.lzf.util;version="[1.0,2)";resolution
:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version
="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.util;ve
rsion="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.u
til.internal;version="[4.1,5)",io.netty.util.internal.logging;version
="[4.1,5)",lzma.sdk;resolution:=optional,lzma.sdk.lzma;resolution:=op
tional,net.jpountz.lz4;resolution:=optional,net.jpountz.xxhash;resolu
tion:=optional,org.jboss.marshalling;resolution:=optional,sun.nio.ch;
resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution
:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optiona
l
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package:
io.netty.handler.codec;uses:="io.netty.buffer,io.netty
.channel,io.netty.channel.socket,io.netty.util";version="4.1.86",io.n
etty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io.
netty.handler.codec";version="4.1.86",io.netty.handler.codec.bytes;us
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version
="4.1.86",io.netty.handler.codec.compression;uses:="com.aayushatharva
.brotli4j.encoder,io.netty.buffer,io.netty.channel,io.netty.handler.c
odec,net.jpountz.lz4";version="4.1.86",io.netty.handler.codec.json;us
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version
="4.1.86",io.netty.handler.codec.marshalling;uses:="io.netty.buffer,i
o.netty.channel,io.netty.handler.codec,org.jboss.marshalling";version
="4.1.86",io.netty.handler.codec.protobuf;uses:="com.google.protobuf,
com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.netty.ha
ndler.codec";version="4.1.86",io.netty.handler.codec.serialization;us
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version
="4.1.86",io.netty.handler.codec.string;uses:="io.netty.buffer,io.net
ty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.
codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.co
dec";version="4.1.86"
Bundle-Name: Netty/Codec
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-codec/

Found in path(s):
* /netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Classes/Epoll
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.classes.epoll
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-classes-epoll
Implementation-Version: 4.1.86.Final
Built-By: root
Bnd-LastModified: 1670851209269
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.
netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version=
"[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;ve
rsion="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.u
til.internal;version="[4.1,5)",io.netty.util.internal.logging;version
 ="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;vers
ion="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2
)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty
.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,
io.netty.util.concurrent";version="4.1.86"
Bundle-Name: Netty/Transport/Classes/Epoll
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_352
Implementation-URL: https://netty.io/netty-transport-classes-epoll/

Found in path(s):
* /netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /netty-zip/netty/netty-transport-native-epoll-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml
* /netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http2/pom.xml
* /netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml
* /netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855159282
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurre
nt;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.nett
y.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=opti
onal,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.e
clipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";ver
sion="4.1.86"
Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver/

Found in path(s):

* /netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/Unix/Common
Bundle-Description: Static library which contains common unix utilitie
s.
Automatic-Module-Name: io.netty.transport.unix.common
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-unix-common
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855190526
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.
netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)
",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=opt
ional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.
eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool:
 Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.channel.unix;uses:="io.netty.buffer,io.netty.
channel,io.netty.channel.socket,io.netty.util";version="4.1.86"
Bundle-Name: Netty/Transport/Native/Unix/Common
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-transport-native-unix-commo
n/

Found in path(s):
* /netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Handler/Proxy
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.handler.proxy
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.handler-proxy
Implementation-Version: 4.1.86.Final

Built-By: root
Bnd-LastModified: 1670851161046
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;ver
sion="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.net
ty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.socksx
.v4;version="[4.1,5)",io.netty.handler.codec.socksx.v5;version="[4.1,
5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version=
 "[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.inte
rnal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.ec
lipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jett
y.alpn;version="[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.proxy;uses:="io.netty.channel,io.nett
y.handler.codec.http,io.netty.util.concurrent";version="4.1.86"
Bundle-Name: Netty/Handler/Proxy
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_352
Implementation-URL: https://netty.io/netty-handler-proxy/

Found in path(s):
* /netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Handler
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
rmance protocol servers and   clients.
Automatic-Module-Name: io.netty.handler
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.handler
Implementation-Version: 4.1.86.Final
Built-By: norman
Bnd-LastModified: 1670855199960
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.security.x509;resolution:=optional,org.eclipse.jet
ty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;ve
rsion="[1,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",

io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[
4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.handler.code
c;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",i
o.netty.internal.tcnative;version="[2.0,3)";resolution:=optional,io.n
etty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.ne
tty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version=
"[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.cryp
to,javax.crypto.spec,javax.net.ssl,javax.security.auth.x500,javax.sec
urity.cert,org.bouncycastle.asn1.pkcs;version="[1.69,2)";resolution:=
optional,org.bouncycastle.asn1.x500;version="[1.69,2)";resolution:=op
tional,org.bouncycastle.cert;version="[1.69,2)";resolution:=optional,
org.bouncycastle.cert.jcajce;version="[1.69,2)";resolution:=optional,
org.bouncycastle.jce.provider;version="[1.69,2)";resolution:=optional
,org.bouncycastle.openssl;version="[1.69,2)";resolution:=optional,org
.bouncycastle.openssl.jcajce;version="[1.69,2)";resolution:=optional,
org.bouncycastle.operator;version="[1.69,2)";resolution:=optional,org
.bouncycastle.operator.jcajce;version="[1.69,2)";resolution:=optional
,org.bouncycastle.pkcs;version="[1.69,2)";resolution:=optional,org.co
nscrypt;version="[2.5,3)";resolution:=optional,sun.nio.ch;resolution:
=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.address;uses:="io.netty.channel,io.ne
tty.resolver";version="4.1.86",io.netty.handler.flow;uses:="io.netty.
channel";version="4.1.86",io.netty.handler.flush;uses:="io.netty.chan
nel";version="4.1.86",io.netty.handler.ipfilter;uses:="io.netty.chann
el";version="4.1.86",io.netty.handler.logging;uses:="io.netty.channel
,io.netty.util.internal.logging";version="4.1.86",io.netty.handler.pc
ap;uses:="io.netty.channel";version="4.1.86",io.netty.handler.ssl;use
s:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.
util,io.netty.util.concurrent,javax.crypto,javax.net.ssl";version="4.
1.86",io.netty.handler.ssl.ocsp;uses:="io.netty.channel,io.netty.hand
ler.ssl";version="4.1.86",io.netty.handler.ssl.util;uses:="javax.net.
ssl,javax.security.auth.x500,javax.security.cert";version="4.1.86",io
.netty.handler.stream;uses:="io.netty.buffer,io.netty.channel";versio
n="4.1.86",io.netty.handler.timeout;uses:="io.netty.channel";version=
"4.1.86",io.netty.handler.traffic;uses:="io.netty.channel,io.netty.ut
il.concurrent";version="4.1.86"
Bundle-Name: Netty/Handler
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-handler/

Found in path(s):
* /netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/MANIFEST.MF

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* /netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/Codec/HTTP2
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.codec.http2
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.codec-http2
Implementation-Version: 4.1.86.Final
Built-By: root
Bnd-LastModified: 1670851101053
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optiona
l,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)
",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,
io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.code
c.compression;version="[4.1,5)",io.netty.handler.codec.http;version="
 [4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.handler.
ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.ne
tty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)"
,io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;ve
rsion="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",java

x.net.ssl,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;versi
on="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)
";resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.handler.codec.http2;uses:="io.netty.buffer,io
.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.ne
tty.handler.codec.compression,io.netty.handler.codec.http,io.netty.ha
ndler.logging,io.netty.handler.stream,io.netty.util,io.netty.util.col
lection,io.netty.util.concurrent";version="4.1.86"
Bundle-Name:
 Netty/Codec/HTTP2
Bundle-Version: 4.1.86.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_352
Implementation-URL: https://netty.io/netty-codec-http2/

Found in path(s):
* /netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/MANIFEST.MF

1.550 netty-handler 4.1.86.Final

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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java

* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/address/package-info.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslHandler.java

* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/flow/package-info.java

* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java

* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
*
 /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
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* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-handler-4-1-86-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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1.551 netty-resolver 4.1.86.Final

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* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
*
 /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
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* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
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* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/package-info.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
*
 /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NameResolver.java
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1.552 netty-codec 4.1.86.Final

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*/
/*
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert
 Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the

```
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
```

```
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                  AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                  AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
```

```
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
```

* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+   +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/base64/package-info.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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/**
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* <p>
 * The encoding and decoding algorithm in this class has been derived from
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* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
*
 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
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 /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java

1.553 netty-transport 4.1.86.Final

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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/package-info.java
*
 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
*
 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
*
 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
```

```
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where 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}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
```

```
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
```

```
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/PendingBytesTracker.java
*
 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/SelectStrategy.java
*

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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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/netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultEventLoop.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractChannel.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
*
/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/package-info.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
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/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelFutureListener.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

* /netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/FailedChannelFuture.java
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 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
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 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/package-info.java
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 /netty-transport-4-1-86-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/PendingWriteQueue.java
* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelFactory.java
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* /netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

1.554 netty-transport-native-unix-common 4.1.86.Final

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* /netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
*
/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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1.555 slf4j 1.7.35

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* /slf4j-api-1-7-35-sources-jar/org/slf4j/MarkerFactory.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/FormattingTuple.java
* /slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/BasicMarker.java
*
/slf4j-api-1-7-35-sources-jar/org/slf4j/helpers/NOPLogger.java

1.556 libsolv 0.7.20-4.el8_7

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1.557 objenesis 2.1

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1.558 slf4j 1.7.21

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* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/IMarkerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/Marker.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/MarkerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/ILoggerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/Logger.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/spi/LocationAwareLogger.java
*
/slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/MDC.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/FormattingTuple.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/LoggerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/MessageFormatter.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java
*
/slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-1-7-21-sources-3-jar/org/slf4j/helpers/Util.java

1.559 cxf-rt-bindings-soap 3.5.5

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1.562 asm 9.4

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1.564 cxf-rt-databinding-jaxb 3.5.5

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1.568 cxf-rt-wsdl 3.5.5

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1.581 angus-activation 1.0.0

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1.583 jackson-datatype-jdk8 2.14.2

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1.584 jackson-dataformat-yaml 2.14.2

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1.585 gson 2.8.9

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* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /gson-2-8-9-sources-4-jar/com/google/gson/TypeAdapter.java
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 /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /gson-2-8-9-sources-4-jar/com/google/gson/TypeAdapterFactory.java
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* /gson-2-8-9-sources-4-jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
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* /gson-2-8-9-sources-4-jar/com/google/gson/stream/JsonWriter.java
* /gson-2-8-9-sources-4-jar/com/google/gson/stream/JsonReader.java
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* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/DateTypeAdapter.java
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* /gson-2-8-9-sources-4-jar/com/google/gson/internal/ConstructorConstructor.java
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 /gson-2-8-9-sources-4-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
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* /gson-2-8-9-sources-4-jar/com/google/gson/GsonBuilder.java
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 /gson-2-8-9-sources-4-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-8-9-sources-4-jar/com/google/gson/reflect/TypeToken.java

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* /gson-2-8-9-sources-4-jar/com/google/gson/annotations/SerializedName.java
* /gson-2-8-9-sources-4-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /gson-2-8-9-sources-4-jar/com/google/gson/JsonIOException.java
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/jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/javaee_web_services_client_1_3.xsd
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CONFIDENTIAL flag will indicate that the use of SSL is
<xsd:enumeration value="CONFIDENTIAL"/>

Found in path(s):
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-common_5_0.xsd
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* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/jsp_3_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-fragment_5_0.xsd
* /jakarta-servlet-api-6-0-0-jar/jakarta/servlet/resources/web-app_5_0.xsd
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Bnd-LastModified: 1652339954197
Build-Jdk: 11.0.2
Built-By: jenkins
Bundle-Description: Jakarta Servlet 6.0
Bundle-DocURL: https://www.eclipse.org

Bundle-License: http://www.eclipse.org/legal/epl-2.0, https://www.gnu.or
g/software/classpath/license.html
Bundle-ManifestVersion: 2
Bundle-Name: Jakarta Servlet
Bundle-SymbolicName: jakarta.servlet-api
Bundle-Vendor: Eclipse Foundation
Bundle-Version: 6.0.0
Export-Package: jakarta.servlet;uses:="jakarta.servlet.annotation,jakart
a.servlet.descriptor";version="6.0.0",jakarta.servlet.annotation;uses:=
"jakarta.servlet";version="6.0.0",jakarta.servlet.descriptor;version="6
.0.0",jakarta.servlet.http;uses:="jakarta.servlet";version="6.0.0",jaka
rta.servlet.resources;version="6.0.0"
Extension-Name: jakarta.servlet
Implementation-Vendor: Eclipse Foundation
Implementation-Vendor-Id: org.eclipse
Implementation-Version:
6.0.0
Import-Package: jakarta.servlet,jakarta.servlet.annotation,jakarta.servl
et.descriptor
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Specification-Vendor: Eclipse Foundation
Specification-Version: 6.0
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /jakarta-servlet-api-6-0-0-jar/META-INF/MANIFEST.MF

1.592 activation 2.1.1

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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
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- javaee_8.xsd

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- javaee_web_services_client_1_2.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
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- jsp_3_1.xsd
- web-app_5_0.xsd
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- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/CrosscuttingMembersSet.java
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*   AMC   extracted as interface
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ResolvedMember.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ResolvedMemberImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelWeaver.java
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*   Martin Lippert   initial implementation
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/GeneratedClassHandler.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/WeavingClassLoader.java
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*   Andy Clement   pushed down into bcel module
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IElementHandleProvider.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IProgramElement.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IHierarchyListener.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IRelationship.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IRelationshipMap.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/HasMemberTypePatternForPerThisMatching.java
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* variant of Aspects in the aspectj5rt project - this one isn't Java5   - Andy Clement
***/

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*   John Kew (vmware)   initial implementation
*   Lyor Goldstein (vmware) add support for weaved class being re-defined
***/

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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/TemporaryTypeMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AbstractAnnotationAJ.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IUnwovenClassFile.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/StandardAnnotation.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/ZippedFileCacheBacking.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ArrayAnnotationValue.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AnnotationValue.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/EnumAnnotationValue.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/IModelFilter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AnnotationNameValuePair.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ClassAnnotationValue.java
*
/aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/IVerificationRequired.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/SimpleAnnotationValue.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/CompressingDataOutputStream.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ConstantPoolReader.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelConstantPoolReader.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/Utility.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/MemberImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/NotTypePattern.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/BCException.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/MemberKind.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IClassWeaver.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ExposedState.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/DeclareSoft.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/FieldGet.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AndPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/TypePatternQuestions.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelCflowStackFieldAdder.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelCflowAccessVar.java
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 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/PerObject.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/OrTypePattern.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/PrivilegedAccessMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IHasPosition.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ResolvedPointcutDefinition.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/NewParentTypeMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelField.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelFieldRef.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/Or.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/Instanceof.java
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 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ISourceContext.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelMethod.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/OrPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/Var.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/StaticJoinPointFactory.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/IToken.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/PerSingleton.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/Checker.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ArgsPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/ASTNode.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/HandlerPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/KindedPointcut.java
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 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AjcMemberMaker.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/IExprVisitor.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/Range.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/SourceContextImpl.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/NameMangler.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ParserException.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/BasicToken.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/Position.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AdviceKind.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/SignaturePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/NameBindingPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/Test.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ShadowMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IHasSourceLocation.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/ast/ITestVisitor.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/IScope.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/WildTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/WithinPointcut.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/UnwovenClassFile.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/NewMethodTypeMunger.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/LazyMethodGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/Bindings.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/DeclareErrorOrWarning.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IntMap.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AndTypePattern.java
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*  Abraham Nevado    new factory methods for collapsed SJPs
*    Andy Clement    new factory methods that rely on LDC <class>
* ******************************************************************/
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* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/Symbol.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/ByteVector.java
*
 /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/RecordComponentWriter.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/AnnotationWriter.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/ClassWriter.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/ModuleVisitor.java
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* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/MethodVisitor.java
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* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/TypePath.java
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 /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/Handler.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/signature/SignatureReader.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/Handle.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/ClassTooLargeException.java
* /aspectjweaver-1-9-19-sources-jar/aj/org/objectweb/asm/ClassVisitor.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/Jdk14Trace.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/Traceable.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/DefaultTrace.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/Trace.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/TraceFactory.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/Jdk14TraceFactory.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/DefaultTraceFactory.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl11.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/runtime/internal/CFlowCounter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/AnnotationDefault.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/EnclosingMethod.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactory.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisParamAnnos.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ArrayElementValue.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeParamAnnos.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ClassElementValue.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IClassFileProvider.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/CacheStatistics.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/DefaultCacheKeyResolver.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelWeakClassLoaderReference.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelWeavingSupport.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/AnnotationAccessFieldVar.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/IWeavingSupport.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/WeakClassLoaderReference.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationFieldTypePattern.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/asm/internal/JDTLikeHandleProvider.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ElementValue.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeAnnos.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeInvisParamAnnos.java
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*   Nieraj Singh
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* Contributors:
*   John Kew (vmware)   initial implementation
*   Lyor Goldstein (vmware) add support for weaved class being re-defined
**/

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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/AbstractIndexedFileCacheBacking.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/WeavedClassCache.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/CacheBacking.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/CachedClassReference.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/GeneratedCachedClassHandler.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/AbstractFileCacheBacking.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/DefaultFileCacheBacking.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/cache/AbstractCacheBacking.java
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*   Andy Clement   fleshed out to match SuppressWarnings
* **/

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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/ReflectionVar.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/JoinPointMatchImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/PointcutBasedPerClauseImpl.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/PointcutBasedPerClause.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/DeclareErrorOrWarningImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/AjType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/AdviceImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/PerClauseKind.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/AdviceKind.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcPrivileged.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/DeclareParents.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareAnnotation.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/JoinPointSignatureIterator.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/ShadowMatchImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/DefaultMatchingContext.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/TypePatternBasedPerClause.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/JoinPointMatch.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/ReflectionShadow.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/StandardShadow.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/TypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/TypeVariablePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/InterTypeConstructorDeclaration.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/internal/tools/MatchingContextBasedTest.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/TypeVariablePatternList.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/InterTypeMethodDeclarationImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/GenericSignatureInformationProvider.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/PointcutExpressionImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/bridge/context/ContextFormatter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/Java15ReflectionBasedReferenceTypeDelegate.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareParents.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/DeclareAnnotation.java
* /aspectjweaver-1-9-19-sources-
jar/org/aspectj/weaver/patterns/HasThisTypePatternTriedToSneakInSomeGenericOrParameterizedTypePatternMatchingStuffAnywhereVisitor.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/StandardShadowMatchImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/bridge/context/ContextToken.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/MatchingContext.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/PointcutDesignatorHandler.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/HasMemberTypePatternFinder.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclarePrecedence.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/TypeVariableReference.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/annotation/DeclareWarning.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/DeclarePrecedence.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/TypePatternBasedPerClauseImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ScopeWithTypeVariables.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/PointcutExpression.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/MissingResolvedTypeWithKnownSignature.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/Advice.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/UnsupportedPointcutPrimitiveException.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/JoinPointSignature.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/DeclareErrorOrWarning.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegateFactory.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareEoW.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/ContextBasedMatcher.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/InterTypeMethodDeclaration.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/InterTypeDeclarationImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/PointcutImpl.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/bridge/context/PinpointingMessageHandler.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/PointcutParameter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/SignaturePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/internal/tools/PointcutDesignatorHandlerBasedPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcITD.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/DeclareSoftImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/PerClauseImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/StringToType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/AjTypeSystem.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/DeclareSoft.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/PerClause.java
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 /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/Pointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/InterTypeDeclaration.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/DeclarePrecedenceImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/NoSuchAdviceException.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AbstractPatternNodeVisitor.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/Java14GenericSignatureInformationProvider.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/DeclareAnnotationImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/annotation/ajcDeclareSoft.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/AjTypeImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/NoSuchPointcutException.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/lang/reflect/InterTypeFieldDeclaration.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/bcel/BcelGenericSignatureToTypeXConverter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/SignaturePatternImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegate.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/internal/lang/reflect/InterTypeFieldDeclarationImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/reflect/PointcutParameterImpl.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AndAnnotationTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AnnotationTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/WithinCodeAnnotationPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/internal/tools/StandardPointcutExpressionImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/PointcutPrimitive.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/NotAnnotationTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/AnnotationPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/WithinAnnotationPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/AnnotatedElement.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/StandardPointcutExpression.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/tools/TypePatternMatcher.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ExactAnnotationTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/BindingPattern.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/internal/tools/PointcutExpressionImpl.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetAnnotationPointcut.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/weaver/patterns/ArgsAnnotationPointcut.java
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*   PARC   initial implementation
*   AndyClement extracted as self contained type from Lint type (4-Aug-06)
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/ConstantsInitializer.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/NestMembers.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/FieldGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/StackMapType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Unknown.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/FieldOrMethod.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/ArrayType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/LineNumberGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/BasicType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantDynamic.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/NestHost.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/LocalVariableTable.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/StackMap.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/FieldGenOrMethodGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/ThreadLocalAwareRepository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ExceptionTable.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/BranchHandle.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/RET.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionTargeter.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/IINC.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionShort.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodHandle.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantClass.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionCP.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionConstants.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/MULTIANEWARRAY.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/Repository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/LineNumberTable.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantNameAndType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantLong.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/LineNumber.java

* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/ClassLoaderReference.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/BootstrapMethods.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/ReferenceType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionList.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/ObjectType.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Node.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Constant.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/JavaClass.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/DefaultClassLoaderReference.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantCP.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodref.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/TABLESWITCH.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/CodeExceptionGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InvokeDynamic.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Utility.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantFieldref.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstVisitor.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantObject.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Modifiers.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/INVOKEINTERFACE.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionHandle.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInterfaceMethodref.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/InstructionLV.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/Instruction.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/SyntheticRepository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Method.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInvokeDynamic.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/TargetLostException.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantUtf8.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Attribute.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/ClassGenException.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/SourceFile.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantInteger.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/ClassLoaderRepository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/FieldInstruction.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/InnerClass.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/FieldOrMethod.java
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* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/Constants.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/NonCachingClassLoaderRepository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/Type.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantValue.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantFloat.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/ClassGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/MethodGen.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/SwitchBuilder.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/SimpleConstant.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantString.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/Synthetic.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ConstantDouble.java
*
 /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ClassParser.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/LocalVariable.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/CodeException.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/util/Repository.java
* /aspectjweaver-1-9-19-sources-jar/org/aspectj/apache/bcel/classfile/ClassFormatException.java
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1.595 openssl 1.1.1t

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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/annotation/AuthenticationPrincipal.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsPasswordService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/CachingUserDetailsService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableListMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/Transient.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyUtils.java
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*/
/**
* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and
* secured that they can serve as identifying a unique user session. Implementations of
* {@link TokenService} are free to use encryption or encoding strategies of their
 choice.
* It is strongly recommended that keys are of sufficient length to balance safety against
* persistence cost. In relation to persistence cost, it is strongly recommended that
* returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
```

*/

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jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java
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Found in path(s):
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UserMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/CoreJackson2Module.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
*
/spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/SpringSecurityCoreVersion.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/parameters/P.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/AuthenticatedPrincipal.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AuthenticationObservationContext.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/PostAuthorizeExpressionAttributeRegistry.java
*
/spring-security-core-6-0-2-sources-jar/org/springframework/security/access/expression/method/AbstractExpressionBasedMethodConfigAttribute.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/MethodExpressionAuthorizationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/AuthorizationManagers.java
* /spring-security-core-6-0-2-sources-

jar/org/springframework/security/authorization/method/PostFilterAuthorizationReactiveMethodInterceptor.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/provisioning/InMemoryUserDetailsManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/ObservationAuthenticationManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/ExpressionBasedPostInvocationAdvice.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/SecurityExpressionRoot.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/prepost/PrePostInvocationAttributeFactory.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/PreInvocationExpressionAttribute.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/prepost/PreInvocationAuthorizationAdviceVoter.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/AuthorizationMethodPointcuts.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/SecurityExpressionHandler.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PreAuthorizeAuthorizationManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/prepost/PostInvocationAuthorizationAdvice.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/PostInvocationExpressionAttribute.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/SpringAuthorizationEventPublisher.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/ObservationReactiveAuthorizationManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PostFilterExpressionAttributeRegistry.java
* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
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/spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/ObservationAuthorizationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/event/AuthorizationEvent.java
* /spring-security-core-6-0-2-sources-
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jar/org/springframework/security/authorization/method/AuthorizationManagerAfterReactiveMethodInterceptor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableMapMixin.java
* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/prepost/PreInvocationAttribute.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PreFilterExpressionAttributeRegistry.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/annotation/AnnotationMetadataExtractor.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PostAuthorizeReactiveAuthorizationManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/ExpressionBasedPreInvocationAdvice.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PreAuthorizeReactiveAuthorizationManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/MethodSecurityEvaluationContext.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/prepost/PostInvocationAttribute.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/vote/RoleHierarchyVoter.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/AuthenticationObservationConvention.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/AuthorizationEventPublisher.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PreFilterAuthorizationMethodInterceptor.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/method/PreFilterAuthorizationReactiveMethodInterceptor.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/event/AuthorizationGrantedEvent.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/AbstractSecurityExpressionHandler.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/core/context/ObservationSecurityContextChangedListener.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/core/context/ListeningSecurityContextHolderStrategy.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/context/DeferredSecurityContext.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authorization/event/AuthorizationDeniedEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/aot/hint/CoreSecurityRuntimeHints.java

* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/ObservationReactiveAuthenticationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/method/DelegatingMethodSecurityMetadataSource.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/method/AbstractFallbackMethodSecurityMetadataSource.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/AuthorizationObservationContext.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerBeforeReactiveMethodInterceptor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/context/TransientSecurityContext.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/annotation/Jsr250Voter.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/PostFilterAuthorizationMethodInterceptor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionRoot.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerAfterMethodInterceptor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/AuthorizationManagerBeforeMethodInterceptor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/ReactiveExpressionUtils.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/ReactiveMethodInvocationUtils.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/jackson2/UnmodifiableMapDeserializer.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authorization/method/ReactiveAuthenticationUtils.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/annotation/Jsr250SecurityConfig.java
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*/
/**
  * @param authentication represents the user in question. Should not be null.
  * @param targetDomainObject the domain object for which permissions should be
  * checked. May be null in which case implementations should return false, as the null
  * condition can be checked explicitly in the expression.

 * @param permission a representation of the permission object as supplied by the
  * expression system. Not null.
  * @return true if the permission is granted, false otherwise
  */

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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/Authentication.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AuthenticationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/util/SimpleMethodInvocation.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/RunAsManagerImpl.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/NullRunAsManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AccountExpiredException.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java
*
 /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/InsufficientAuthenticationException.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AbstractAuthenticationToken.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/ConfigAttribute.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/GrantedAuthority.java

* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/AuthenticationDetailsSource.java
*
/spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/LockedException.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/AccessDecisionVoter.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/RunAsManager.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/annotation/Jsr250MethodSecurityMetadataSource.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/SpringSecurityMessageSource.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java
*
/spring-security-core-6-0-2-sources-jar/org/springframework/security/util/InMemoryResource.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/vote/AffirmativeBased.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/AuthorizationServiceException.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/DisabledException.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/util/MethodInvocationUtils.java
*
/spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/UserCache.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/vote/UnanimousBased.java
* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/session/SessionInformation.java
* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/event/LoggerListener.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/SecurityConfig.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/RunAsUserToken.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/event/AuthorizedEvent.java
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/spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AuthenticationProvider.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/session/SessionRegistryImpl.java
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* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/InterceptorStatusToken.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/TestingAuthenticationToken.java
*

/spring-security-core-6-0-2-sources-
jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
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jar/org/springframework/security/authentication/AuthenticationTrustResolver.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/User.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/vote/RoleVoter.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/context/SecurityContextImpl.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/AuthenticationException.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/authentication/TestingAuthenticationProvider.java
* /spring-security-core-6-0-2-sources-
jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java
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/spring-security-core-6-0-2-sources-jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/core/token/SecureRandomFactoryBean.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
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*/
/**
* Reviews the <code>Object</code> returned from a secure object invocation, being able to
* modify the <code>Object</code> or throw an {@link AccessDeniedException}.
* <p>
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean.

Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* <code>Collection</code> elements.
*
* Special consideration should be given to using an <code>AfterInvocationManager</code>
* on bean methods that modify a database. Typically an
* <code>AfterInvocationManager</code> is used with read-only methods, such as
* <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* <code>AccessDeniedException</code> will cause a rollback of the changes made by the
* transaction.
*
*
* @author Ben Alex
* @see org.springframework.security.authorization.method.AuthorizationManagerBeforeMethodInterceptor
* @see org.springframework.security.authorization.method.AuthorizationManagerAfterMethodInterceptor
* @deprecated Use delegation with {@link AuthorizationManager}
*/

Found in path(s):
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* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
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*/
/**
  * Determines if the {@link #getAuthentication()} has permission to access the target
  * given the permission
  * @param target the target domain object to check permission on
  * @param permission the permission to check on the domain object (i.e. "read",
  * "write", etc).
  * @return true if permission
 is granted to the {@link #getAuthentication()}, else
  * false
  */
```

Found in path(s):
* /spring-security-core-6-0-2-sources-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java

1.599 groovy-swing 3.0.13

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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ComboBoxFactory.groovy
*
/groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/ClosureTriggerBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/LookAndFeelHelper.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/FormattedTextFactory.groovy
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/AbstractFullBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/SwingBorderFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/PropertyModel.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/FormModel.java
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* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/PropertyBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/TableModelFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JTableProperties.java
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* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/SourceBinding.java
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/ClosureTriggerBinding.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/AbstractButtonProperties.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/ValueModel.java
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/MutualPropertyBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/WindowFactory.groovy
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/AggregateBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ButtonGroupFactory.groovy
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/groovy-swing-3-0-13-sources-jar/groovy/swing/factory/BeanFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/EmptyBorderFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/NestedValueModel.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/AbstractSyntheticBinding.java
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* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/BindingUpdatable.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/TabbedPaneFactory.groovy
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/SwingTimerTriggerBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/model/ValueModel.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JScrollBarProperties.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/EtchedBorderFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/TableLayoutFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/BevelBorderFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ColumnFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/ValueHolder.java
* /groovy-swing-3-0-13-sources-jar/groovy/model/DefaultTableColumn.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JSpinnerProperties.java
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 /groovy-swing-3-0-13-sources-jar/groovy/swing/impl/TableLayout.java
* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/BindingUpdatable.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/table/TableSorter.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ActionFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/model/ClosureModel.java
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/FullBinding.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ColumnModelFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JTextComponentProperties.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/impl/TableLayoutCell.java
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* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/MutualPropertyBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/impl/ClosureRenderer.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ListFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/AbstractSyntheticMetaMethods.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/inspect/swingui/TableSorter.java
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/runtime/SwingGroovyMethods.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JComboBoxMetaMethods.groovy
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/BindPath.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/impl/DefaultAction.java
* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/PropertyChangeProxyTargetBinding.java
*
 /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/SourceBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JListMetaMethods.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/ImageIconFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/CollectionFactory.groovy
* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/BindingProxy.java
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* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/TargetBinding.java

* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/BoxLayoutFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JComponentProperties.java
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/ClosureModel.java
* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/EventTriggerBinding.java
* /groovy-swing-3-0-13-sources-jar/org/apache/groovy/swing/binding/PropertyBinding.java
* /groovy-swing-3-0-13-sources-jar/groovy/inspect/swingui/TableMap.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/CompoundBorderFactory.groovy
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* /groovy-swing-3-0-13-sources-jar/groovy/swing/model/DefaultTableColumn.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/WidgetFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/binding/JSliderProperties.java
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/MapFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/factory/TitledBorderFactory.groovy
* /groovy-swing-3-0-13-sources-jar/groovy/swing/impl/ClosureCellEditor.groovy
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* /groovy-swing-3-0-13-sources-jar/org/codehaus/groovy/binding/PropertyChangeProxyTargetBinding.java
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1.600 groovy-docgenerator 3.0.13

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1.601 groovy-test 3.0.13

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* /groovy-test-3-0-13-sources-jar/groovy/util/GroovyAssert.java

* /groovy-test-3-0-13-sources-jar/groovy/util/GroovyTestSuite.java
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1.602 jakarta-servlet-jsp-jstl-api 3.0.0

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*
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* /groovy-macro-3-0-13-sources-
jar/org/codehaus/groovy/macro/matcher/internal/MatchingConstraintsBuilder.groovy
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*
/groovy-macro-3-0-13-sources-jar/org/codehaus/groovy/macro/matcher/ContextualClassCodeVisitor.java
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#global transformation for macro support
org.codehaus.groovy.macro.transform.MacroTransformation
org.codehaus.groovy.macro.transform.MacroClassTransformation

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1.604 jaxb2-reflection 4.0.0

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1.607 groovy-ant 3.0.13

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```
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* /groovy-ant-3-0-13-sources-jar/groovy/ant/FileNameFinder.groovy
*
 /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/Groovydoc.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/GroovycTask.java
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* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/RootLoaderRef.java
* /groovy-ant-3-0-13-sources-jar/groovy/util/AntBuilder.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/GenerateStubsTask.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/Groovy.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/FileSystemCompilerFacade.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/LoggingHelper.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/UberCompileTask.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/VerifyClass.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/FileIterator.java
* /groovy-ant-3-0-13-sources-jar/groovy/ant/AntBuilder.java
*
 /groovy-ant-3-0-13-sources-jar/groovy/util/FileNameFinder.groovy
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/AntProjectPropertiesDelegate.java
* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/FileScanner.java
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* /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/ant/package.html
*
 /groovy-ant-3-0-13-sources-jar/org/codehaus/groovy/antlib.xml

1.608 groovy-testng 3.0.13

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org.apache.groovy.plugin.testng.TestNgRunner

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* /groovy-testng-3-0-13-sources-jar/META-INF/services/org.apache.groovy.plugin.GroovyRunner

1.609 groovy-nio 3.0.13

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*
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1.615 groovy-sql 3.0.13

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1.618 libsigsegv 2.11-5.el8

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1.619 libxcrypt 4.1.1-4.el8

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1.620 dbus-glib 0.110-2.el8

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A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

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b) Accompany the object code with a copy of the GNU GPL and this license document.

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e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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1.622 libassuan 2.5.1-3.el8

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this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could

make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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1. Source Code.

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

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

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

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

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

When a "work that uses the Library" uses material from a header file

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact
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1.624 python-pysocks 1.6.8-3.el8

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1.625 libuser 0.62-23.el8

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changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary
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treats it as such.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable
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```
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it
  under certain conditions; type `show c' for details.
```

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```
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1.628 publicsuffix-list 20180723-1.el8

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1.629 libtirpc 1.1.4-4.el8

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1.633 gobject-introspection 1.56.1-1.el8

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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while

preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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writing it). Whether that is true depends on what the Library does
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.634 zip 3.0-23.el8

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1.635 popt 1.16-14.el8

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

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

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

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

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

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

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

distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

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

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
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Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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

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

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

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

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

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

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

-- Nathan
=20

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

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

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

Attachments: Message as HTML

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>
Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt
the
> place of a
> library to dictact to application writes what license they should

> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches

and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
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> > > additional code, so whatever licensing y'all come up with is fine
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> GPL would permit applications which were released under version 3 of the
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looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
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-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
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> the change now ?

yes. go for it. thanks++

-a

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

Attachments: Message
as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
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Nathan Neulinger is the only one who can actually make said change ...
-mike

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CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

 -a

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

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

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

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

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
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unlike the old license, GPL-2 prevents people from using cracklib unless th=

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

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

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to dictact to application writes what license they should
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
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I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
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that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

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

<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

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> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
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> ideal.

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

Happy now? :-)

 -a

1.639 libksba 1.3.5-7.el8

1.639.1 Available under license :

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run

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

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

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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1.640 ima-evm-utils 1.1-5.el8

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1.641 python-inotify 0.9.6-13.el8

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1.645 libmnl 1.0.4-6.el8

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1.650 libyaml 0.1.7-5.el8

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1.651 python-ethtool 0.14-3.el8

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1.652 python-chardet 3.0.4-7.el8

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

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derivative of it, under Section 2) in object code or executable form
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it with the complete corresponding machine-readable source code, which
must be distributed
under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

free library to free
software only, so we use the Lesser General Public License.

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

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

3. You may opt to apply the terms of the ordinary
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

engineering for debugging such modifications.

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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

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other library
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1.654 json-glib 1.4.4-1.el8

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This option is useful when you wish to copy part of the code of

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed
under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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1.655 libpeas 1.22.0-6.el8

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

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

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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1.657 gawk 4.2.1-1.el8

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

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1.659 tcl 8.6.8-2.el8

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

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

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

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1.668 passwd 0.80-3.el8

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1.669 glib 2.56.4-8.el8

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

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another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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other library
facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
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1.670 diffutils 3.6-6.el8

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

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

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

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

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

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1.673 ca-certificates 2020.2.41-80.0.el8_2

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1.674 nghttp2 1.33.0-3.el8_2.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.675 kmod 25-16.el8

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

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The project maintains the following source code repositories:

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* https://github.com/eclipse-ee4j/jaxb-dtd-parser
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/UrlUtils.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/PortMapperImpl.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/UsernamePasswordAuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/www/BasicAuthenticationEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/NullRememberMeServices.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/FastHttpDateFormat.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/channel/ChannelProcessor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/DefaultFilterInvocationSecurityMetadataSource.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/Enumerator.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/AccessDeniedHandlerImpl.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java
*

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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/PortResolverImpl.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/FilterInvocation.java
*
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/RequestMatcherRedirectFilter.java

* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/DefaultSecurityFilterChain.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/CookieClearingLogoutHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/reactive/result/method/annotation/AuthenticationPrincipalArgumentResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ExchangeMatcherRedirectWebFilter.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/RequestMatcherEntry.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/CrossOriginEmbedderPolicyServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/CrossOriginEmbedderPolicyHeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authorization/IpAddressReactiveAuthorizationManager.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/debug/DebugFilter.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/HstsHeaderWriter.java
*
 /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/header/writers/frameoptions/XFrameOptionsHeaderWriter.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/util/matcher/MediaTypeRequestMatcher.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/authentication/AbstractAuthenticationTargetUrlRequestHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/IpAddressMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/StaticHeadersWriter.java
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jar/org/springframework/security/web/server/transport/HttpsRedirectWebFilter.java
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jar/org/springframework/security/web/authentication/AuthenticationConverter.java
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jar/org/springframework/security/web/header/writers/ClearSiteDataHeaderWriter.java
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jar/org/springframework/security/web/header/writers/ReferrerPolicyHeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/RequestKey.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/HeaderWriterFilter.java
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jar/org/springframework/security/web/header/writers/ContentSecurityPolicyHeaderWriter.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/authentication/logout/LogoutSuccessEventPublishingLogoutHandler.java
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jar/org/springframework/security/web/header/writers/CompositeHeaderWriter.java
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jar/org/springframework/security/web/reactive/result/method/annotation/CurrentSecurityContextArgumentResolver.
java
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jar/org/springframework/security/web/server/header/ClearSiteDataServerHttpHeadersWriter.java
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jar/org/springframework/security/web/server/authentication/logout/HeaderWriterServerLogoutHandler.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/ExceptionMappingAuthenticationFailureHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/ContentSecurityPolicyServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/ForwardAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/ServerAuthenticationConverter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/FeaturePolicyServerHttpHeadersWriter.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/FirewalledResponse.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/DelegatingServerAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/SimpleUrlAuthenticationFailureHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/logout/DelegatingServerLogoutHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/ui/DefaultLoginPageGeneratingFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/ServerFormLoginAuthenticationConverter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/reactive/result/view/CsrfRequestDataValueProcessor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/ForwardLogoutSuccessHandler.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/WebSecurityExpressionRoot.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/ServerWebExchangeDelegatingServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/ServerAuthenticationEntryPointFailureHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/XXssProtectionHeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/www/BasicAuthenticationConverter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/WebExpressionVoter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/SecurityContextPersistenceFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/ServerCsrfTokenRequestHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/NullSecurityContextRepository.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/DefaultHttpSecurityExpressionHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jackson2/CookieDeserializer.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/AbstractPreAuthenticatedProcessingFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/ObservationMarkingAccessDeniedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ui/LogoutPageGeneratingWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/DeferredCsrfToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/SavedCookie.java
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/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/WebFilterChainProxy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/CompositeRequestRejectedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/method/annotation/CurrentSecurityContextArgumentResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/XorServerCsrfTokenRequestAttributeHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/RepositoryDeferredCsrfToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/ServerWebExchangeDelegatingReactiveAuthenticationManagerResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/DisableEncodeUrlFilter.java

* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/ForceEagerSessionCreationFilter.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/RequestAttributeSecurityContextRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/CompositeAccessDeniedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/ServerCsrfTokenRequestAttributeHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/ServerCsrfTokenRequestResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/CookieServerCsrfTokenRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfAuthenticationStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/SessionManagementFilter.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/SecurityContextRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/AuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/DelegatingSecurityContextRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/AntPathRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ServerFormLoginAuthenticationConverter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/HttpSessionSecurityContextRepository.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/AuthorizationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/SupplierDeferredSecurityContext.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/HttpSessionRequestCache.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ServerHttpBasicAuthenticationConverter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/SecurityContextHolderFilter.java

* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/SwitchUserWebFilter.java
*
 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfTokenRequestHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/RequestMatcherDelegatingWebInvocationPrivilegeEvaluator.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/WebExpressionAuthorizationManager.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfTokenRequestAttributeHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authorization/ExceptionTranslationWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/DefaultWebInvocationPrivilegeEvaluator.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/AuthenticationEntryPointFailureHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/RequestMatcherDelegatingAuthenticationManagerResolver.java
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 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfTokenRequestResolver.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/ConcurrentSessionFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/CsrfWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ObservationWebFilterChainDecorator.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/RequestMatcherDelegatingAuthorizationManager.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/AuthorizationManagerWebInvocationPrivilegeEvaluator.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/AbstractVariableEvaluationContextPostProcessor.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/XContentTypeOptionsServerHttpHeadersWriter.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/WebFilterChainServerAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/util/matcher/ServerWebExchangeMatcherEntry.java
* /spring-security-web-6-0-2-sources-

jar/org/springframework/security/web/server/authentication/ServerAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/logout/RedirectServerLogoutSuccessHandler.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/context/ReactorContextWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/WebFilterExchange.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/ServerRedirectStrategy.java
*
/spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/logout/ServerLogoutSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/CsrfToken.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/csrf/WebSessionServerCsrfTokenRepository.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/authentication/rememberme/PersistentTokenBasedRememberMeServices.jav
a
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/DefaultCsrfToken.java
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jar/org/springframework/security/web/server/header/HttpHeaderWriterWebFilter.java
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jar/org/springframework/security/web/server/authorization/HttpStatusServerAccessDeniedHandler.java
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* /spring-security-web-6-0-2-sources-
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jar/org/springframework/security/web/server/header/ContentTypeOptionsServerHttpHeadersWriter.java
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jar/org/springframework/security/web/server/header/XFrameOptionsServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/context/SecurityContextServerWebExchangeWebFilter.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/util/matcher/ServerWebExchangeMatcher.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/logout/ServerLogoutHandler.java
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/spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/RedirectServerAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authorization/AuthorizationContext.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/ui/LoginPageGeneratingWebFilter.java
* /spring-security-web-6-0-2-sources-

jar/org/springframework/security/web/server/authorization/ServerAccessDeniedHandler.java
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jar/org/springframework/security/web/server/util/matcher/MediaTypeServerWebExchangeMatcher.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/context/NoOpServerSecurityContextRepository.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/header/CompositeServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/header/ServerHttpHeadersWriter.java
*
/spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/HttpBasicServerAuthenticationEntryPoint.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/savedrequest/NoOpServerRequestCache.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/logout/SecurityContextServerLogoutHandler.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/context/ServerSecurityContextRepository.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/RedirectServerAuthenticationFailureHandler.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/util/matcher/ServerWebExchangeMatchers.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/csrf/CsrfException.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/ServerAuthenticationFailureHandler.java
*
/spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/ServerAuthenticationEntryPoint.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/server/authentication/RedirectServerAuthenticationEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/SecurityWebFilterChain.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/XContentTypeOptionsHeaderWriter.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/bind/support/AuthenticationPrincipalArgumentResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/DefaultCsrfToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/HeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/InvalidSessionAccessDeniedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/AnyRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/DelegatingRequestMatcherHeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/method/annotation/CsrfTokenArgumentResolver.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/servlet/support/csrf/CsrfRequestDataValueProcessor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfLogoutHandler.java
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/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/SessionFixationProtectionEvent.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/ChangeSessionIdAuthenticationStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/CompositeSessionAuthenticationStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/AbstractSessionFixationProtectionStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/csrf/CsrfToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/bind/annotation/AuthenticationPrincipal.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jackson2/SavedCookieMixin.java
*
 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jackson2/CookieMixin.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/jackson2/DefaultSavedRequestMixin.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/session/SessionInformationExpiredStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jackson2/WebJackson2Module.java
* /spring-security-web-6-0-2-sources-
jar/org/springframework/security/web/jackson2/WebServletJackson2Module.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authorization/DelegatingReactiveAuthorizationManager.java
*
 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/HttpStatusRequestRejectedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/x509/SubjectDnX509PrincipalExtractor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/AnonymousAuthenticationWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/util/matcher/OrServerWebExchangeMatcher.java

* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/util/matcher/NegatedServerWebExchangeMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/CookieRequestCache.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/savedrequest/WebSessionServerRequestCache.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/support/SecurityWebApplicationContextUtils.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/HttpSessionIdChangedEvent.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/DelegatingServerAuthenticationEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/AbstractRememberMeServices.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/RequestRejectedHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/DispatcherTypeRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/util/matcher/PathPatternParserServerWebExchangeMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/util/matcher/AndServerWebExchangeMatcher.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/savedrequest/CookieServerRequestCache.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/PermissionsPolicyHeaderWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/header/PermissionsPolicyServerHttpHeadersWriter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/logout/LogoutWebFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/ConcurrentSessionControlAuthenticationStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/RequestAuthorizationContext.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/DefaultServerRedirectStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/AuthenticationWebFilter.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/server/authentication/AuthenticationConverterServerWebExchangeMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/DefaultRequestRejectedHandler.java
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/j2ee/J2eeBasedPreAuthenticatedWebAuthenticationDetailsSource.java
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 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/OnCommittedResponseWrapper.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/package-info.java
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jar/org/springframework/security/web/header/writers/frameoptions/AbstractRequestParameterAllowFromStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/FirewalledRequest.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/RedirectStrategy.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/DefaultRedirectStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/Header.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/WebAttributes.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/websphere/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/j2ee/J2eePreAuthenticatedProcessingFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/RequestAttributeAuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/context/HttpRequestResponseHolder.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/SimpleRedirectInvalidSessionStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/DefaultWebSecurityExpressionHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/RememberMeAuthenticationException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/RegisterSessionAuthenticationStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/SavedRequest.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/HttpStatusEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/LogoutSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/NullRequestCache.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jackson2/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/debug/Logger.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/intercept/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/WebExpressionConfigAttribute.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/SavedRequestAwareAuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/RedirectUrlBuilder.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/Http403ForbiddenEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/RequestedUrlRedirectInvalidSessionStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedAuthenticationProvider.java

*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/websphere/WASUsernameAndGroupsExtractor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/CookieTheftException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedAuthenticationToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/RequestHeaderAuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/NegatedRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/ThrowableAnalyzer.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/AuthenticationFailureHandler.java
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/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/x509/X509AuthenticationFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/j2ee/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedGrantedAuthoritiesWebAuthenticationDetails.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/PersistentRememberMeToken.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/servletapi/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/InvalidCookieException.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/RequestRejectedException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/frameoptions/RegExpAllowFromStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/j2ee/WebXmlMappableAttributesRetriever.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/PersistentTokenRepository.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/SessionAuthenticationException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedGrantedAuthoritiesUserDetailsService.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/expression/package-info.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/SimpleUrlAuthenticationSuccessHandler.java

* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/PreAuthenticatedCredentialsNotFoundException.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/ui/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/jaasapi/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/frameoptions/AllowFromStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/SecurityFilterChain.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/savedrequest/RequestCache.java
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 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/websphere/WebSpherePreAuthenticatedWebAuthenticationDetailsSource.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/servletapi/HttpServletRequestFactory.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/SimpleRedirectSessionInformationExpiredStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/AndRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/SimpleUrlLogoutSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/channel/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/DefaultHttpFirewall.java
*
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* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/util/matcher/RegexRequestMatcher.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/websphere/WebSpherePreAuthenticatedProcessingFilter.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/session/NullAuthenticatedSessionStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/switchuser/SwitchUserAuthorityChanger.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/x509/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/HttpFirewall.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/firewall/RequestWrapper.java
*
 /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/header/writers/frameoptions/StaticAllowFromStrategy.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/access/channel/AbstractRetryEntryPoint.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/logout/DelegatingLogoutSuccessHandler.java
* /spring-security-web-6-0-2-sources-

jar/org/springframework/security/web/authentication/AuthenticationSuccessHandler.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/rememberme/InMemoryTokenRepositoryImpl.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/www/package-info.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/preauth/x509/X509PrincipalExtractor.java
* /spring-security-web-6-0-2-sources-jar/org/springframework/security/web/session/InvalidSessionStrategy.java
*
/spring-security-web-6-0-2-sources-jar/org/springframework/security/web/authentication/www/DigestAuthUtils.java
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wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
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1.682 rpm 4.14.3-10.ph3

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1.684 lombok 1.18.26

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1.685 spring-tx 6.0.5

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1.695 error_prone_annotations 2.18.0

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1.696 micrometer-observation 1.10.4

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* /micrometer-observation-1-10-4-sources-
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jar/io/micrometer/observation/aop/ObservedAspectObservationDocumentation.java
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jar/io/micrometer/observation/transport/RequestReplySenderContext.java
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1.697 jose4j 0.7.8

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 /jose4j-0-7-8-sources-2-jar/org/jose4j/lang/JsonHelp.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/lang/StringUtil.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/keys/HmacKey.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/keys/X509Util.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwt/NumericDate.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwk/RsaJwkGenerator.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwe/ContentEncryptionParts.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/lang/JoseException.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jws/AlgorithmIdentifiers.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwe/KeyManagementAlgorithm.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java
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* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwk/Use.java
* /jose4j-0-7-8-sources-2-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java
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* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java
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* /jose4j-0-7-8-sources-2-jar/org/jose4j/jwx/HeaderParameterNames.java
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* /jose4j-0-7-8-sources-2-jar/org/jose4j/lang/InvalidKeyException.java
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This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

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1.699 hibernate 6.1.7.Final

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*/
/**
  * Use the proprietary WITH ROLLUP or WITH CUBE clause.
  */
```

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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/GroupBySummarizationRenderingStrategy.java
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*/
//     "5.3 in upgrading.  It will be removed in a later version."
```

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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p/>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p/>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon
* WAS version
* the WAS container in which Hibernate will be utilized
*
* <p/>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin

King
* @author Jesper Udby
* @author Steve Ebersole
*/

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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*/
/**
 * Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
 * Hibernate.
 * <p>
 * According to the JPA specification, the {@code BeanManager} should be
 * passed at boot time and be ready for immediate use at that time. But
 * not all environments can do this (WildFly, for example). To accommodate
 * such environments, Hibernate provides two options:
 *
 * A proprietary CDI extension SPI (which has been proposed to the CDI
 * spec group as a standard option) which can be used to provide delayed
 * {@code BeanManager} access: to use this solution, the reference passed
 * as the {@code BeanManager} during bootstrap should be typed as
 * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.

* Delayed access to the {@code BeanManager} reference: here, Hibernate
 * will not access the reference passed as the {@code BeanManager} during
 * bootstrap until it is first needed. Note, however, that this has the
 * effect of delaying the detection of any deployment problems until after
 * bootstrapping.
 *
 * This setting is used to configure access to the {@code BeanManager},
 * either directly, or via
 * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *
 * @see org.hibernate.boot.SessionFactoryBuilder#applyBeanManager(Object)
 */

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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/jpa/persistence_3_0.xsd
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
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*/
// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
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*/

```
/**
 * Does this dialect support the SQL lateral keyword or a proprietary alternative?
 *
 * @return {@code true} if the underlying database supports lateral,
 * {@code false} otherwise.  The default is {@code false}.
 */
```

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/Dialect.java
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```

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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/internal/util/collections/ConcurrentReferenceHashMap.java
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*/
// It supports a proprietary operator
```

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java

* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
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*/
/**
 * Subclass used to simply instantiation of singular attributes representing an entity's
 * version.
 */

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jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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jar/org/hibernate/sql/results/graph/entity/internal/NotFoundSnapshotAssembler.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/select/AbstractSqmSelectQuery.java
* /hibernate-core-6-1-7-final-sources-

jar/org/hibernate/metamodel/internal/EmbeddableInstantiatorPojoOptimized.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmTreatedBagJoin.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/type/descriptor/java/spi/PrimitiveJavaType.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/tree/from/OneToManyTableGroup.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/mapping/Queryable.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/model/domain/BagPersistentAttribute.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/query/derived/AnonymousTupleNonAggregatedEntityIdentifierMapping.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/insert/SqmValues.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/metamodel/mapping/ordering/OrderByFragmentTranslator.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/criteria/JpaCompoundSelection.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/ComparisonOperator.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/collection/internal/StandardBagSemantics.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/spi/EmbeddableRepresentationStrategy.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/loader/access/LoadAccessContext.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/IntervalType.java
*
/hibernate-core-6-1-7-final-sources-
jar/org/hibernate/bytecode/enhance/spi/interceptor/AbstractLazyLoadInterceptor.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPolymorphicRootDescriptor.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/metamodel/model/domain/internal/TupleMappingModelExpressible.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/tree/from/TableJoin.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/type/internal/CustomMutabilityConvertedBasicTypeImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/mutation/internal/UpdateHandler.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/type/descriptor/java/CoercionHelper.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/TrimSpec.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/sql/results/graph/entity/internal/EntitySelectFetchInitializer.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/boot/model/relational/SqlStringGenerationContext.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/type/internal/CompositeUserTypeJavaTypeWrapper.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/sql/results/graph/entity/internal/NotFoundSnapshotResult.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/cache/internal/NoCachingTransactionSynchronizationImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmAnyValuedSimplePath.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/query/internal/DelegatingDomainQueryExecutionContext.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/tree/from/ValuesTableGroup.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/select/SqmSortSpecification.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/spi/StandardSqlAstTranslatorFactory.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/graph/internal/AbstractGraphNode.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/type/internal/ConvertedBasicTypeImpl.java

* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/annotations/EmbeddableInstantiatorRegistrations.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/function/NvlCoalesceEmulation.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/query/sqm/produce/function/FunctionReturnTypeResolver.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/bytecode/enhance/spi/interceptor/EnhancementAsProxyLazinessInterceptor.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/internal/AttributeMetadata.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/cache/spi/support/EntityReadOnlyAccess.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/sql/internal/DiscriminatorPathInterpretation.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/tree/update/UpdateStatement.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/results/internal/LoadingCollectionEntryImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/results/ResultsLogger.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/ast/tree/cte/CteColumn.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/boot/model/process/internal/UserTypeMutabilityPlanAdapter.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/model/domain/EmbeddedDomainType.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/metamodel/model/domain/internal/MappedSuperclassSqmPathSource.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/metamodel/model/convert/spi/SimpleBasicValueConverter.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/criteria/JpaExpression.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/resource/beans/container/spi/BeanLifecycleStrategy.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/results/implicit/ImplicitFetchBuilderEmbeddable.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/criteria/JpaCriteriaQuery.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/results/ResultBuilderInstantiationValued.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/results/graph/entity/internal/EntityAssembler.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/internal/ValueContext.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/internal/SqmTreePrinter.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/exec/internal/JdbcCallParameterExtractorImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/annotations/CollectionTypeRegistration.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/SqmVisitableNode.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/query/results/complete/CompleteResultBuilderEntityStandard.java
*
/hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/spi/ScrollableResultsImplementor.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/criteria/JpaRoot.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/dialect/function/CommonFunctionFactory.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmAggregateFunction.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/results/dynamic/AbstractFetchBuilderContainer.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/internal/AbstractDynamicMapInstantiator.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/FrameMode.java
* /hibernate-core-6-1-7-final-sources-
jar/org/hibernate/metamodel/mapping/internal/InFlightEntityMappingType.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/exec/internal/JdbcSelectExecutorStandardImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/cache/spi/access/CachedDomainDataAccess.java
*

/hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralPartJoin.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/spi/NonSelectQueryPlan.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/sql/exec/spi/JdbcParameterBinder.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/query/criteria/JpaPredicate.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/spi/RuntimeModelCreationContext.java
* /hibernate-core-6-1-7-final-sources-
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/metamodel/model/domain/internal/MapAttributeImpl.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/cache/spi/access/AccessType.java
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/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.

```
*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* {@code Hashtable}. However, even though all operations are
* thread-safe, retrieval operations
 do <em>not</em> entail locking,
* and there is <em>not</em> any support for locking the entire table
* in a way that prevents all access.  This class is fully
* interoperable with {@code Hashtable} in programs that rely on its
* thread safety but not on its synchronization details.
* <p/>
* <p> Retrieval operations (including {@code get}) generally do not
* block, so may overlap with update operations (including
* {@code put} and {@code remove}). Retrievals reflect the results
* of the most recently <em>completed</em> update operations holding
* upon their onset.  For aggregate operations such as {@code putAll}
* and {@code clear}, concurrent retrievals may reflect insertion or
* removal of only some entries.  Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do <em>not</em> throw {@link java.util.ConcurrentModificationException}.
* However,
 iterators are designed to be used by only one thread at a time.
* <p/>
* <p> The allowed concurrency among update operations is guided by
* the optional {@code concurrencyLevel} constructor argument
* (default {@code 16}), which is used as a hint for internal sizing.  The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary.  Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
```

```
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this
 or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p/>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p/>
* <p>This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain</p>
* <p/>
* <p/>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow {@code null} to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
*
* @author Doug Lea
*/
```

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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```
#
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#
org.hibernate.jpa.HibernatePersistenceProvider
```

Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider
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Found in path(s):
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/tuple/entity/VersionProperty.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/cfg/CopyIdentifierComponentSecondPass.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/tuple/PropertyFactory.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/id/insert/InsertGeneratedIdentifierDelegate.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/tuple/VmValueGeneration.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/internal/StatelessSessionImpl.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/type/BasicTypeRegistry.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/service/NullServiceException.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/tool/schema/extract/internal/ExtractionContextImpl.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/annotations/OptimisticLocking.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/bytecode/internal/none/DisallowedProxyFactory.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/engine/spi/ExecuteUpdateResultCheckStyle.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/boot/archive/internal/ExplodedArchiveDescriptor.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/jpa/QueryHints.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/tool/schema/spi/SchemaDropper.java
* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/boot/internal/DefaultSessionFactoryBuilderInitiator.java
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* /hibernate-core-6-1-7-final-sources-jar/org/hibernate/annotations/FilterJoinTables.java
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1.701 javaparser-core 3.24.2

1.702 json-java 20080701

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1.703 commons-compress 1.23.0

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1.704 gdb 8.2-19.el8

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with the Invariant Sections being @var{list their titles}, with
the Front-Cover
Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we

recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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your libraries, too.

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For example, if you distribute copies of the library, whether gratis
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code. If you link a program with the library, you must provide
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changes to the library and recompiling
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Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
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Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
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Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
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one; be sure to read it in full, and don't assume that anything in it is
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
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changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this
function must
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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the version number 2.1.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the
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Finally, software patents pose a constant threat to the existence

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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

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* /spring-tx-5-3-27-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/RecordCreator.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/CciOperations.java
* /spring-tx-5-3-27-sources-

jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
*
/spring-tx-5-3-27-sources-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/UncategorizedDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /spring-tx-5-3-27-sources-
jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/DataAccessException.java
*
/spring-tx-5-3-27-sources-jar/org/springframework/dao/DataRetrievalFailureException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/object/EisOperation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /spring-tx-5-3-27-sources-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionSystemException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/NonTransientDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/TransientDataAccessException.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionCallback.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
*

/spring-tx-5-3-27-sources-jar/org/springframework/transaction/event/TransactionPhase.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/event/TransactionalApplicationListenerMethodAdapter.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
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/spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionDefinition.java
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 /spring-tx-5-3-27-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/ReactiveTransaction.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionExecution.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionManager.java
* /spring-tx-5-3-27-sources-
jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionStatus.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
*

/spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /spring-tx-5-3-27-sources-
jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionOperations.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/Propagation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
*

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* /spring-tx-5-3-27-sources-jar/org/springframework/dao/DuplicateKeyException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/CannotSerializeTransactionException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/Transactional.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/ConcurrencyFailureException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/CannotAcquireLockException.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
*
/spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/object/MappingRecordOperation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/support/DaoSupport.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/ConnectionCallback.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/context/BootstrapContextAware.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/CannotCreateRecordException.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/connection/ConnectionHolder.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/Isolation.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/HeuristicCompletionException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/InvalidTimeoutException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/core/RecordExtractor.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /spring-tx-5-3-27-sources-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
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/spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/TransactionTemplate.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/ResourceHolderSupport.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/NoTransactionException.java
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 /spring-tx-5-3-27-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/DataIntegrityViolationException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /spring-tx-5-3-27-sources-
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* /spring-tx-5-3-27-sources-jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/RecoverableDataAccessException.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/EmptyResultDataAccessException.java
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* /spring-tx-5-3-27-sources-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java
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 /spring-tx-5-3-27-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/TransactionTimedOutException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/QueryTimeoutException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /spring-tx-5-3-27-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java

1.712 spring-jdbc 5.3.27

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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java

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```

```
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or
 wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/
```

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```

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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p>NOTE: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
  */

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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
*
 /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
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jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/CustomSQLErrorCodesTranslation.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/BadSqlGrammarException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/SqlOperation.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java

* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/BatchUpdateUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/BatchSqlUpdate.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/SqlCall.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/SqlQuery.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/SqlUpdate.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java

* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
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/spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java

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```
/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
Development</a>
* by Rod Johnson (Wrox, 2002).
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java

*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/JdbcAccessor.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/JdbcTransactionManager.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/KeyHolder.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/RdbmsOperation.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlParameter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/SqlProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/SqlFunction.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java

* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
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jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
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* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
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jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
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*
 /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-5-3-27-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java

* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
*
/spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
* /spring-jdbc-5-3-27-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con a JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @return a Map of input parameters, keyed by name (never {@code null})
  * @throws SQLException if an SQLException is encountered setting
```

```
 * parameter values (that is, there's no need to catch SQLException)
 */
```

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1.717 snake-yaml 1.33

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*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
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* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/NodeEvent.java
*
 /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
*
 /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/parser/Production.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
*

/snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/comments/CommentLine.java
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/snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/nodes/Tag.java
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* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
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* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
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* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
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/snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/parser/Parser.java

* /snakeyaml-1-33-sources-6-jar/org/yaml/snakeyaml/error/Mark.java

1.718 libxml2 2.9.7-16.el8

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1.719 syspurpose 1.28.36

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference

between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

it.

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

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

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

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

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

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

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

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

work of the Library, and
therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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

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

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

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

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

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

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

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

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

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

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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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and the section as a whole is intended to apply in other circumstances.

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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MA 02110-1301, USA

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

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

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

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

That's all there is to it!

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Version 3, 29 June 2007

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any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to

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price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

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

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

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

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

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

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

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

1. Source Code.

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

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

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered
by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
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Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
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makes it unnecessary.

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

No covered work shall be deemed part of an effective technological
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similar laws prohibiting or restricting circumvention of such
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modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
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keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

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

5. Conveying Modified Source Versions.

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

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

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

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

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

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

6. Conveying Non-Source Forms.

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

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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

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

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

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

"Installation Information" for a User Product means any methods, procedures, authorization
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Version 2, June 1991

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

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========

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its purpose remains meaningful.

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

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therefore falls outside the scope of this License.

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

When a ``work that uses the Library'' uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.
(Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6.
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@item
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@enumerate a
@item
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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1.721 servlet-api 6.0.0

1.721.1 Available under license :

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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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may be obtained from:
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- javaee_web_services_client_1_3.xsd
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- jsp_2_3.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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Bundle-SymbolicName: jakarta.servlet-api
Archiver-Version: Plexus Archiver
Built-By: default
Bnd-LastModified: 1566398855350
Implementation-Vendor-Id: org.eclipse
Bundle-DocURL: https://www.eclipse.org
Import-Package: javax.servlet,javax.servlet.annotation,javax.servlet.descriptor
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Export-Package: javax.servlet;uses:="javax.servlet.annotation,javax.servlet.descriptor";version="4.0.0",javax.servlet.annotation;uses:="javax.servlet";version="4.0.0",javax.servlet.descriptor;version="4.0.0",javax.servlet.http;uses:="javax.servlet";version="4.0.0"
Bundle-Name: Jakarta Servlet
Extension-Name: javax.servlet
Bundle-Description: Jakarta Servlet 4.0
Automatic-Module-Name: java.servlet
Implementation-Version: 4.0.3
Bundle-ManifestVersion:
2
Specification-Vendor: Eclipse Foundation

Bundle-Vendor: Eclipse Foundation
Tool: Bnd-4.0.0.201805111645
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Bundle-Version: 4.0.0
Created-By: Apache Maven Bundle Plugin
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1.723 servlet-api 6.0

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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
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
***/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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*     Stephan Herrmann - Contributions for
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
*******************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 367203 - [compiler][null] detect assigning null to nonnull argument
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 382353 - [1.8][compiler] Implementation property modifiers
```

should be accepted on default methods.
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.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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*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
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*     BEA - Patch for bug 172743
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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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*   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 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

```
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 458396 - NPE in CodeStream.invoke()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/

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*     Stephan Herrmann - 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 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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*           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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*   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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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*Contributors:
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*   Stephan Herrmann - Contribution for
*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
***/

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*
* Contributors:
*    wharley@bea.com - derived base class from BatchMessagerImpl
*
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*   Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 317046 - Exception during debugging when hover mouse over a field
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray(and asking for code completion
 *   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
**/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AptSourceLocalVariableBinding.java

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* Contributors:
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*     Stephan Herrmann - Contributions for
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*******************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.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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Found
in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.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-3-33-0-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"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
**********************************************************************************/
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*     Stephan Herrmann - contributions for
*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*          bug 186342 - [compiler][null] Using annotations for null checking
*******************************************************************************/
```

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*        Bug 186342 - [compiler][null] Using annotations for null checking
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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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 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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModulePathEntry.java

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*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
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*     Stephan Herrmann - Contribution for
*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*        Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
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* Contributors:
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   philippe.marschall@netcetera.ch - Fix for 338370
*   IBM Corporation - Fix for validating relative name
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ModuleBinding.java
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* Contributors:
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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()
*******************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VariableBinding.java
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*     Stephan Herrmann - Contributions for
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*******************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Pattern.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
***/

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*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
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*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*     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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*     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
*******************************************************************************/
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*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 331649 - [compiler][null] consider null annotations for fields
```

*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*   Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*   Till Brychcy - Contribution for
*   bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*   Stephan Herrmann - Contributions for
*   Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*   Bug 388630 - @NonNull diagnostics at line 0

```
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
 *    Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                       Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*                       Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* IBM Corporation - initial API and implementation
* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 379784 - [compiler] "Method can be static" is not getting reported
* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null
analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 417295 - [1.8[[null] Massage type annotated null analysis
to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException

instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

```
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*       Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*       Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*     Jesper Steen Moller - Contributions for:
*          Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.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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*    wharley@bea.com - initial API and implementation
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
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*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
```

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*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*           bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
*******************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java

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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
**********************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/messages.properties
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*   Stephan Herrmann - Contribution for
*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

```
*       bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*       Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*    Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*    Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*******************************************************************************/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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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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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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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 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 404728 - [1.8]NPE on QualifiedSuperReference error
**********/

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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*        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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*   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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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
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*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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```
*    IBM Corporation - fix for 342470
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
*******************************************************************************/
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Found in path(s):
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*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                     Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                     Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CodeStream.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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*   Perry James - nullStatus method improvement (165346)
*   Stephan Herrmann - Contribution for
*   bug 383368 - [compiler][null] syntactic null analysis for field references
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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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*        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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Literal.java
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*   Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*   Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.

```
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*         bug 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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*         bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 434600 - Incorrect null analysis error reporting on type parameters
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
```

* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
***/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMapper.java
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*   Genady Beriozkin - added support for reporting assignment with no effect
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing
 try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing

warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* Stephan Herrmann - 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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*           bug 349326 - [1.7] new warning for missing try-with-resources
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*       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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*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 331649 - [compiler][null] consider null annotations for fields
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*         Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*         Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                         Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                         Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                         Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                         Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                         Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                         Bug 419209 - [1.8] Repeating container annotations
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*         Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*   bug 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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*   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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*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - fix for bug 574449.
*    Frits Jalvingh  - fix for bug 533830.
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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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
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*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
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*   Bug 427438 - [1.8][compiler] NPE at
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*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators
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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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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*   Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 434556 - Broken class file generated for incorrect annotation usage
*   Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*   Stephan Herrmann - Contribution for
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Olivier Tardieu tardieu@us.ibm.com - Contributions for
*   Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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*   Bug 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 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

* bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
* Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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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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*       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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
```

into account
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*   bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*   bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   bug 325755 - [compiler] wrong initialization state after conditional expression
*   bug 320170 - [compiler] [null] Whitebox issues in null analysis
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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*   Bug 458396 - NPE in CodeStream.invoke()
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*    tyeung@bea.com - initial API and implementation
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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```
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*
* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*          NonStaticAccessToStaticField
*          NonStaticAccessToStaticMethod
*          Task
*          ExpressionShouldBeAVariable
*          AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*          TooManySyntheticArgumentSlots
*          TooManyArrayDimensions
*          TooManyBytesForStringConstant
*          TooManyMethods
*          TooManyFields
 *          NonBlankFinalLocalAssignment
*          ObjectCannotHaveSuperTypes
*          MissingSemiColon
*          InvalidParenthesizedExpression
*          EnclosingInstanceInConstructorCall
*          BytecodeExceeds64KLimitForConstructor
*          IncompatibleReturnTypeForNonInheritedInterfaceMethod
*          UnusedPrivateMethod
*          UnusedPrivateConstructor
*          UnusedPrivateType
*          UnusedPrivateField
*          IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*          InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*          PossibleAccidentalBooleanAssignment
```

```
*          SuperfluousSemicolon
*          IndirectAccessToStaticField
*          IndirectAccessToStaticMethod
*          IndirectAccessToStaticType
*          BooleanMethodThrowingException
*          UnnecessaryCast
*          UnnecessaryArgumentCast
*          UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*          UnusedMethodDeclaredThrownException
*          UnusedConstructorDeclaredThrownException
*          InvalidCatchBlockSequence
*          UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*          Javadoc
*          JavadocUnexpectedTag
*          JavadocMissingParamTag
*          JavadocMissingParamName
*          JavadocDuplicateParamName
*          JavadocInvalidParamName
*          JavadocMissingReturnTag
*          JavadocDuplicateReturnTag
*          JavadocMissingThrowsTag
*          JavadocMissingThrowsClassName
*          JavadocInvalidThrowsClass
*          JavadocDuplicateThrowsClassName
*          JavadocInvalidThrowsClassName
*          JavadocMissingSeeReference
*          JavadocInvalidSeeReference
*          JavadocInvalidSeeHref
*          JavadocInvalidSeeArgs
*          JavadocMissing
*          JavadocInvalidTag
*          JavadocMessagePrefix
 *          EmptyControlFlowStatement
*     IBM Corporation - added the following constants
*          IllegalUsageOfQualifiedTypeReference
*          InvalidDigit
*     IBM Corporation - added the following constants
*          ParameterAssignment
*          FallthroughCase
*     IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
```

```
*                       JavadocNonStaticTypeFromStaticInvocation
*                       RawTypeReference
*                       NoAdditionalBoundAfterTypeVariable
*                       UnsafeGenericArrayForVarargs
*                       IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                       InvalidEncoding
*                       CannotReadSource
*                       EnumStaticFieldInInInitializerContext
*                       ExternalProblemNotFixable
*                       ExternalProblemFixable
*     IBM Corporation - added the following constants
*                       AnnotationValueMustBeAnEnumConstant
*                       OverridingMethodWithoutSuperInvocation
*                       MethodMustOverrideOrImplement
*                       TypeHidingTypeParameterFromType
*                       TypeHidingTypeParameterFromMethod
*                       TypeHidingType
*     IBM Corporation - added the following constants
*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*          NullLocalVariableComparisonYieldsFalse
 *          RedundantLocalVariableNullAssignment
*          NullLocalVariableInstanceofYieldsFalse
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*     IBM Corporation - added the following constants
*                       InvalidUsageOfTypeParametersForAnnotationDeclaration
*                       InvalidUsageOfTypeParametersForEnumDeclaration
*     IBM Corporation - added the following constants
*         RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*        MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*        UnusedObjectAllocation
*        PotentiallyUnclosedCloseable
*        PotentiallyUnclosedCloseableAtExit
*        UnclosedCloseable
*        UnclosedCloseableAtExit
*        ExplicitlyClosedAutoCloseable
*           RequiredNonNullButProvidedNull
 *         RequiredNonNullButProvidedPotentialNull
*         RequiredNonNullButProvidedUnknown
*         NullAnnotationNameMustBeQualified
*         IllegalReturnNullityRedefinition
*         IllegalRedefinitionToNonNullParameter
```

* IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations

* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNoNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation
* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers
* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitizalier
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitalizers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture

```
*         VarIsNotAllowedHere
**********************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/IProblem.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ExternalAnnotationSuperimposer.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SwitchExpression.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
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*   Stefan Xenos <sxenos@gmail.com> (Google) - initial API and implementation
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ExternalAnnotationDecorator.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - Java 8 support
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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
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*   Dennis Hendriks - initial API and implementation
*   IBM Corporation - Contribution for bug 188796
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* Contributors:
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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)
***/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*          Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*          Bug 354536 - compiling package-info.java still depends on the order of compilation units
*          Bug 349326 - [1.7] new warning for missing try-with-resources
*          Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                       Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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* Contributors:
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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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in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*         bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 366063 - Compiler should not add synthetic @NonNull annotations
*         bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*         bug 386356 - Type mismatch error with annotations and generics
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
```

```
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
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* Contributors:
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceModule.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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java
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* Contributors:
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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* Contributors:
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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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
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*   Christoph Läubrich - use Filesystem helper method
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 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):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.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 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java

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*         Bug 407191 - [1.8] Binary access support for type annotations
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*           bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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*        bug 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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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*        bug 387612 - Unreachable catch block...exception is never thrown from the try
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*        bug 401271 - StackOverflowError
```

when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong

* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 559618 - No compiler warning for import from same package
* Bug 560630 - No warning on unused import on class from same package
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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*        Bug 440474 - [null] textual encoding of external null annotations
*******************************************************************************/
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*        bug 383368 - [compiler][null] syntactic null analysis for field references
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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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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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
***/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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```
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*    Stephan Herrmann - Contribution for
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
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*       bug 407191 - [1.8] Binary access support for type annotations
*     Stephan Herrmann - Contribution for
*       Bug 440474 - [null] textual encoding of external null annotations
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags

```
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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*       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 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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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 295551 - Add option to automatically promote all warnings to errors
*          bug 359721 - [options] add command line option
 for new warning token "resource"
*        bug 365208 - [compiler][batch] command line options for annotation based null analysis
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*        Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*     Jesper S Moller   - Contributions for
*        bug 407297 - [1.8][compiler] Control generation of parameter names by option
*    Mat Booth - Contribution for bug 405176
*    Frits Jalvingh -
 fix for bug 533830.
**********************************************************************************/

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*   bug 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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* Contributors:
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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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*     Christoph Läubrich - use Filesystem helper method
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*     IBM Corporation - initial API and implementation
*     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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java

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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.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
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*        bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

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 in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*    Frits Jalvingh  - fix for bug 533830.
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.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 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/PolyParameterizedGenericMethodBinding.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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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
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*     Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug
 383368 - [compiler][null] syntactic null analysis for field references
*        bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 430150 - [1.8][null] stricter checking against type variables
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*        Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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*   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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* Contributors:
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
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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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* Contributors:
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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 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*     Stephan Herrmann - Contribution for
*         Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*********************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java
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*     Frits Jalvingh  - fix for bug 533830.
*********************************************************************************/
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* Contributors:
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
*******************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
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*   bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*   bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*   bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*   bug 386692 - Missing "unused" warning on "autowired" fields
**/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.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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*         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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedGenericMethodBinding.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.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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*   Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*   Stephan Herrmann - Contributions for
*   bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*   bug 401035 - [1.8] A few tests have started failing recently
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*   bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*   bug 393192 - Incomplete type hierarchy with > 10 annotations
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
           Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
**/

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*   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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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
***/

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*   IBM Corporation - Fix for bug 341494

*   IBM Corporation - Fix for bug 328575
*   IBM Corporation - Java 8 support
**********/

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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
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/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
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*   Stephan Herrmann - Contribution for
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ***/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.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 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java
* /ecj-3-33-0-sources-
jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
**********************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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*     Stephan Herrmann - Contributions for
*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
**********************************************************************************/
```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java
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*   Stephan Herrmann - initial API and implementation
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

```
*          Bug 473178
*     IBM Corporation - Bug fixes
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/
```

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 in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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*          bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
```

* bug 358903 - Filter practically unimportant resource leak warnings
* bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
* Bug 431408 - Java 8 (1.8) generics bug
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
 * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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*   Stephan Herrmann - Contribution for
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for 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 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.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
*   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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*   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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/RecordPattern.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

```
*       bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*                       bug 413873 - Warning "Method can be static" on method referencing a non-static
 inner class
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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
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 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 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 -

[1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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*   bug 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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Double-conversion v1.1.5

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jQuery UI v1.12.1

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****

---
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```
## ASM Bytecode Manipulation Framework v6.0

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1.728 alsa 1.2.8-2.el8

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Found in path(s):
* /redhat-release-8.8-0.8.0.1.el8.src.rpm-cosi-expand-archive-UVS3KqyW/redhat-release.spec

1.738 libpwquality 1.4.4-6.el8

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

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

concluded that weaker conditions might promote sharing better.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains
code derived from the library, while the latter only
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work.
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Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
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library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.740 curl 7.61.1-30.el8_8.2

1.740.1 Available under license :

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License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
licensed code is not allowed to be linked with code licensed under the
[Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the
announcement clause). You may still build your own copies that use them all,
but distributing them as binaries would be to violate the GPL license - unless
you accompany your license with an
[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem
was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an
announcement clause that makes it "incompatible" with GPL. You are not

allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

NSS

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mbedTLS

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BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same
license as that.

c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very
liberal and imposes no restrictions on any other library or part you may link
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zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
that shouldn't collide with any other library.

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any
other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the
announcement clause.

GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not
distribute binary curl packages that uses this if you build curl to also link
and use any Original BSD licensed libraries!

libidn

(Used for IDNA support) Uses the GNU Lesser General
Public License [3]. LGPL
is a variation of GPL with slightly less aggressive "copyleft". This license
requires more requirements to be met when distributing binaries, see the
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properly point out what parts of the distributed package that the license
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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.741 file 5.33-24.el8

1.741.1 Available under license :

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

License: BSD
License: BSD

Found in path(s):
* /file-r8-zip/file-r8/SPECS/file.spec

1.742 librepo 1.14.2-4.el8

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1.743 libarchive 3.3.3-5.el8

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1.744 glibc 2.28-225.el8

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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be optional: if the application does not supply it, the square
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1.748 elfutils 0.188-3.el8

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1.751 libsolv 0.7.20-4.el8

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1.752 aop-alliance 2.6.1

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{\fonttbl\f0\froman\fcharset0 Times-Roman;\f1\fmodern\fcharset0 Courier;}
{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\paperw11900\paperh16840\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\deftab720
\pard\pardeftab720\sl280\partightenfactor0

\f0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 This XML file does not appear to have any style information associated with it. The document tree is shown below.\
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\f1\fs26 \cf2 <!--\
\
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\
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   Eclipse Public License v. 2.0 are satisfied: GNU General Public License,\
   version 2 with the GNU Classpath Exception, which is available at\
   https://www.gnu.org/software/classpath/license.html.\
\
   SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0\
\
-->\
<project\'a0xmlns="http://maven.apache.org/POM/4.0.0"\'a0xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"\'a0xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">\
<modelVersion>4.0.0</modelVersion>\
<parent>\
<groupId>org.glassfish.hk2</groupId>\
<artifactId>external</artifactId>\
<version>2.6.1</version>\
</parent>\
<groupId>org.glassfish.hk2.external</groupId>\
<artifactId>aopalliance-repackaged</artifactId>\
<name>\
aopalliance version $\{aopalliance.version\} repackaged as a module\
</name>\
<build>\
<plugins>\
<plugin>\
<groupId>org.apache.maven.plugins</groupId>\
<artifactId>maven-dependency-plugin</artifactId>\
<executions>\
<execution>\
<id>step1-unpack-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>unpack</goal>\
</goals>\
<configuration>\
<artifactItems>\
<artifactItem>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>$\{aopalliance.version\}</version>\
<classifier>sources</classifier>\
<overWrite>false</overWrite>\
<outputDirectory>$\{project.build.directory\}/alternateLocation</outputDirectory>\
</artifactItem>\
</artifactItems>\
</configuration>\
</execution>\
```

</executions>\
</plugin>\
<plugin>\
<groupId>org.codehaus.mojo</groupId>\
<artifactId>build-helper-maven-plugin</artifactId>\
<executions>\
<execution>\
<id>step2-add-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>add-source</goal>\
</goals>\
<configuration>\
<sources>\
<source>$\{project.build.directory\}/alternateLocation</source>\
</sources>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.apache.felix</groupId>\
<artifactId>maven-bundle-plugin</artifactId>\
<configuration>\
<instructions>\
<Embed-Dependency>\'a0*;scope=compile;inline=true\'a0</Embed-Dependency>\
<!--\
We set a mandatory attribute for these packages, because we don't\
want them to be visible to just anyone. An importer must specify\
the mandatory attribute for it to be able to import. See \
section #3.6.5 of OSGi R4 spec.\
Why is this required?\
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
By doing this, we allow user have any version of apache-commons lib\
in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
using OSGi.
Sahoo.\
\
-->\
<Export-Package>org.aopalliance.*;version=$\{aopalliance.version\}</Export-Package>\
<Private-Package>!*</Private-Package>\
</instructions>\
</configuration>\
<executions>\
<execution>\
<id>osgi-manifest</id>\
<phase>process-classes</phase>\

<goals>\
<goal>manifest</goal>\
</goals>\
</execution>\
</executions>\
</plugin>\
</plugins>\
</build>\
<dependencies>\
<dependency>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>$\{aopalliance.version\}</version>\
<optional>true</optional>\
</dependency>\
</dependencies>\
</project>\
}

Found in path(s):
* /aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

1.753 spring-security-core 5.8.3

1.753.1 Available under license :

Apache-2.0

1.754 dnf-plugins-core 4.0.21-19.el8_8

1.754.1 Available under license :

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License: GPLv2+

Found in path(s):
* /dnf-plugins-core-imports-r8-dnf-plugins-core-4-0-21-19-el8-8-zip/dnf-plugins-core-imports-r8-dnf-plugins-core-4.0.21-19.el8_8/SPECS/dnf-plugins-core.spec
No license file was found, but licenses were detected in source scan.

From 6ea94d9c768eb45975f314e11ab9dd88284fa380 Mon Sep 17 00:00:00 2001
From: Jaroslav Mracek <jmracek@redhat.com>
Date: Mon, 27 Sep 2021 11:29:01 +0200
Subject: [PATCH] Add new command modulesync (RhBug:1868047)

It will download module metadata from all enabled repositories,
module artifacts and profiles of matching modules. Then it creates

a repository.

= changelog =
msg: Add a new subpackage with modulesync command. The command
downloads packages from modules and/or creates a repository with modular
data.
type: enhancement
resolves: https://bugzilla.redhat.com/show_bug.cgi?id=1868047
---
dnf-plugins-core.spec | 20 ++++++++++++++++++
doc/CMakeLists.txt | 1 +
doc/conf.py | 1 +
doc/index.rst | 1 +
doc/modulesync.rst | 103
++
++++++++++++++++++++
plugins/CMakeLists.txt |
1 +
plugins/modulesync.py | 208
++++++++++++++++++++++++++++++++++++++

```
+
%prep
%autosetup
%if %{with python2}
@@ -762,6 +775,13 @@ ln -sf %{_mandir}/man1/%{yum_utils_subpackage_name}.1.gz
%{buildroot}%{_mandir}/
%endif
%endif

+%if %{with python3}
+%files -n python3-dnf-plugin-modulesync
+%{python3_sitelib}/dnf-plugins/modulesync.*
+%{python3_sitelib}/dnf-plugins/__pycache__/modulesync.*
+%{_mandir}/man8/dnf-modulesync.*
+%endif
+
%changelog
* Mon Apr 12 2021 Nicola Sella <nsella@redhat.com> - 4.0.21-1
- Add missing command line option to documentation
diff --git a/doc/CMakeLists.txt b/doc/CMakeLists.txt
index 3fb665d..ff84cf8 100644
--- a/doc/CMakeLists.txt
+++ b/doc/CMakeLists.txt
@@ -28,6 +28,7 @@ INSTALL(FILES ${CMAKE_CURRENT_BINARY_DIR}/dnf-builddep.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-generate_completion_cache.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-groups-manager.8
    ${CMAKE_CURRENT_BINARY_DIR}/dnf-leaves.8
+    ${CMAKE_CURRENT_BINARY_DIR}/dnf-modulesync.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-needs-restarting.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-repoclosure.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-repodiff.8
diff --git a/doc/conf.py b/doc/conf.py
index 645185a..41d6936 100644
--- a/doc/conf.py
+++ b/doc/conf.py
@@ -254,6 +254,7 @@ man_pages = [
   ('groups-manager', 'dnf-groups-manager', u'DNF groups-manager Plugin', AUTHORS, 8),
   ('leaves', 'dnf-leaves', u'DNF leaves Plugin', AUTHORS, 8),
   ('local', 'dnf-local', u'DNF local Plugin', AUTHORS, 8),
+    ('modulesync', 'dnf-modulesync', u'DNF modulesync Plugin', AUTHORS, 8),
   ('needs_restarting', 'dnf-needs-restarting', u'DNF needs_restarting Plugin', AUTHORS, 8),
   ('repoclosure', 'dnf-repoclosure', u'DNF repoclosure Plugin', AUTHORS, 8),
   ('repodiff', 'dnf-repodiff', u'DNF repodiff Plugin', AUTHORS, 8),
diff --git a/doc/index.rst b/doc/index.rst
index 7213253..07f6052 100644
---
 a/doc/index.rst
+++ b/doc/index.rst
```

```
@@ -37,6 +37,7 @@ This documents core plugins of DNF:
   leaves
   local
   migrate
+   modulesync
   needs_restarting
   post-transaction-actions
   repoclosure
diff --git a/doc/modulesync.rst b/doc/modulesync.rst
new file mode 100644
index 0000000..2837287
--- /dev/null
+++ b/doc/modulesync.rst
@@ -0,0 +1,103 @@
+..
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+
+====================
+DNF modulesync Plugin
+====================
+
+Download packages from modules and/or create a repository with modular data.
+
+--------
+Synopsis
+--------
+
+``dnf modulesync [options] [<module-spec>...]``
+
+-----------
+Description
+-----------
+
```

+`modulesync` downloads packages from modules according to provided arguments and creates a repository with modular data
+in working directory. In environment with modules it is recommend to use the command for redistribution of packages,
+because DNF does not allow installation of modular packages without modular metadata on the system (Fail-safe
+mechanism). The command without an argument
 creates a repository like `createrepo_c` but with modular metadata collected
+from all available repositories.
+
+See examples.
+
+---------
+Arguments
+---------
+
+``<module-spec>``
+   Module specification for the package to download. The argument is an optional.
+
+-------
+Options
+-------
+
+All general DNF options are accepted. Namely, the ``--destdir`` option can be used to specify directory where packages
+will be downloaded and the new repository created. See `Options` in :manpage:`dnf(8)` for details.
+
+
+``-n, --newest-only``
+   Download only packages from the newest modules.
+
+``--enable_source_repos``
+   Enable repositories with source packages
+
+``--enable_debug_repos``
+   Enable repositories with debug-info and debug-source packages
+
+``--resolve``
+   Resolve and download needed dependencies
+
+--------
+Examples
+--------
+
+``dnf modulesync nodejs``
+   Download packages from `nodejs` module and crete a repository with modular metadata in working directory
+
+``dnf download nodejs``

```
+
+``dnf modulesync``
+    The first `download` command downloads nodejs package into working directory. In environment with modules `nodejs`
+    package can be a modular package therefore when I create a repository I have to insert also modular metadata
+    from available repositories to ensure 100% functionality. Instead of `createrepo_c` use `dnf modulesync`
+    to create a repository in working directory with nodejs package and modular metadata.
+
+``dnf --destdir=/tmp/my-temp modulesync nodejs:14/minimal --resolve``
+    Download package required for installation of `minimal` profile from module `nodejs` and stream `14` into directory
+    `/tmp/my-temp` and all required dependencies. Then it will create a repository in `/tmp/my-temp` directory with
+    previously downloaded packages and modular metadata from all available repositories.
+
+``dnf module install nodejs:14/minimal --downloadonly --destdir=/tmp/my-temp``
+
+``dnf modulesync --destdir=/tmp/my-temp``
+
   The first `dnf module install` command downloads package from required for installation of `minimal` profile from module
+    `nodejs` and stream `14` into directory `/tmp/my-temp`. The second command `dnf modulesync` will create
+    a repository in `/tmp/my-temp` directory with previously downloaded packages and modular metadata from all
+    available repositories. In comparison to `dnf --destdir=/tmp/my-temp modulesync nodejs:14/minimal --resolve` it will
+    only download packages required for installation on current system.
+
+
+--------
+See Also
+--------
+
+* :manpage:`dnf(8)`, DNF Command Reference
diff --git a/plugins/CMakeLists.txt b/plugins/CMakeLists.txt
index f66d3df..59f148f 100644
--- a/plugins/CMakeLists.txt
+++ b/plugins/CMakeLists.txt
@@ -22,6 +22,7 @@ INSTALL (FILES repograph.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES repomanage.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES reposync.py DESTINATION
 ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES show_leaves.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
+INSTALL (FILES modulesync.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES versionlock.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)

ADD_SUBDIRECTORY (dnfpluginscore)
diff --git a/plugins/modulesync.py b/plugins/modulesync.py
new file mode 100644
```

```
index 0000000..c1c33e4
--- /dev/null
+++ b/plugins/modulesync.py
@@ -0,0 +1,208 @@
+# Copyright (C) 2021  Red Hat, Inc.
+#
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+# source code or documentation are not subject to the GNU General Public
+# License and may only be used or replicated with the express permission of
+# Red Hat, Inc.
+#
+
+from __future__ import absolute_import
+from __future__ import unicode_literals
+from dnfpluginscore import _, P_, logger
+from dnf.cli.option_parser import OptionParser
+
+import os
+import shutil
+import subprocess
+
+import dnf
+import dnf.cli
+import dnf.i18n
+import hawkey
+
+
+@dnf.plugin.register_command
+class SyncToolCommand(dnf.cli.Command):
+
+    aliases = ['modulesync']
+    summary = _('Download packages from modules and/or create a repository with modular data')
+
+    def __init__(self, cli):
+        super(SyncToolCommand, self).__init__(cli)
+
+
```

```
    @staticmethod
+   def set_argparser(parser):
+       parser.add_argument('module', nargs='*', metavar=_('MODULE'),
+                           help=_('modules to download'))
+       parser.add_argument("--enable_source_repos", action='store_true',
+                           help=_('enable repositories with source packages'))
+       parser.add_argument("--enable_debug_repos", action='store_true',
+                           help=_('enable repositories with debug-info and debug-source packages'))
+       parser.add_argument('--resolve', action='store_true',
+                           help=_('resolve and download needed dependencies'))
+       parser.add_argument('-n', '--newest-only', default=False, action='store_true',
+                           help=_('download only packages from newest modules'))
+
+   def configure(self):
+       # setup sack and populate it with enabled repos
+       demands = self.cli.demands
+       demands.sack_activation = True
+
        demands.available_repos = True
+
+       demands.load_system_repo = False
+
+       if self.opts.enable_source_repos:
+           self.base.repos.enable_source_repos()
+
+       if self.opts.enable_debug_repos:
+           self.base.repos.enable_debug_repos()
+
+       if self.opts.destdir:
+           self.base.conf.destdir = self.opts.destdir
+       else:
+           self.base.conf.destdir = dnf.i18n.ucd(os.getcwd())
+
+   def run(self):
+       """Execute the util action here."""
+
+       pkgs = self.base.sack.query().filterm(empty=True)
+       no_matched_spec = []
+       for module_spec in self.opts.module:
+           try:
+               pkgs = pkgs.union(self._get_packages_from_modules(module_spec))
+           except dnf.exceptions.Error:
+               no_matched_spec.append(module_spec)
+       if no_matched_spec:
+           msg = P_("Unable to find a match for argument: '{}'", "Unable to find a match for arguments: '{}'",
+
        len(no_matched_spec)).format("' '".join(no_matched_spec))
+           raise dnf.exceptions.Error(msg)
```

```
+
+        if self.opts.resolve:
+            pkgs = pkgs.union(self._get_providers_of_requires(pkgs))
+
+        # download rpms
+        self._do_downloads(pkgs)
+
+        # Create a repository at destdir with modular data
+        remove_tmp_moduleyamls_files = []
+        for repo in self.base.repos.iter_enabled():
+            module_md_path = repo.get_metadata_path('modules')
+            if module_md_path:
+                filename = "".join([repo.id, "-", os.path.basename(module_md_path)])
+                dest_path = os.path.join(self.base.conf.destdir, filename)
+                shutil.copy(module_md_path, dest_path)
+                remove_tmp_moduleyamls_files.append(dest_path)
+        args = ["createrepo_c", "--update", "--unique-md-filenames", self.base.conf.destdir]
+        p = subprocess.run(args)
+        if p.returncode:
+            msg = _("Creation of repository
 failed with return code {}. All downloaded content was kept on the system")
+            msg = msg.format(p.returncode)
+            raise dnf.exceptions.Error(msg)
+        for file_path in remove_tmp_moduleyamls_files:
+            os.remove(file_path)
+
+    def _do_downloads(self, pkgs):
+        """
+        Perform the download for a list of packages
+        """
+        pkg_dict = {}
+        for pkg in pkgs:
+            pkg_dict.setdefault(str(pkg), []).append(pkg)
+
+        to_download = []
+
+        for pkg_list in pkg_dict.values():
+            pkg_list.sort(key=lambda x: (x.repo.priority, x.repo.cost))
+            to_download.append(pkg_list[0])
+        if to_download:
+            self.base.download_packages(to_download, self.base.output.progress)
+
+    def _get_packages_from_modules(self, module_spec):
+        """Gets packages from modules matching module spec
+        1. From module artifacts
+        2. From module profiles"""
+        result_query = self.base.sack.query().filterm(empty=True)
+
```

```
     module_base = dnf.module.module_base.ModuleBase(self.base)
+      module_list, nsvcap = module_base.get_modules(module_spec)
+      if self.opts.newest_only:
+         module_list = self.base._moduleContainer.getLatestModules(module_list, False)
+      for module in module_list:
+         for artifact in module.getArtifacts():
+            query = self.base.sack.query(flags=hawkey.IGNORE_EXCLUDES).filterm(nevra_strict=artifact)
+            if query:
+               result_query = result_query.union(query)
+            else:
+               msg = _("No match for artifact '{0}' from module '{1}'").format(
+                  artifact, module.getFullIdentifier())
+               logger.warning(msg)
+         if nsvcap.profile:
+            profiles_set = module.getProfiles(nsvcap.profile)
+         else:
+            profiles_set = module.getProfiles()
+         if profiles_set:
+
           for profile in profiles_set:
+               for pkg_name in profile.getContent():
+                  query = self.base.sack.query(flags=hawkey.IGNORE_EXCLUDES).filterm(name=pkg_name)
+                  # Prefer to add modular providers selected by argument
+                  if result_query.intersection(query):
+                     continue
+                  # Add all packages with the same name as profile described
+                  elif query:
+                     result_query = result_query.union(query)
+                  else:
+                     msg = _("No match for package name '{0}' in profile {1} from module {2}")\
+                        .format(pkg_name, profile.getName(), module.getFullIdentifier())
+                     logger.warning(msg)
+      if not module_list:
+         msg = _("No mach for argument '{}'").format(module_spec)
+         raise dnf.exceptions.Error(msg)
+
+
     return result_query
+
+   def _get_providers_of_requires(self, to_test, done=None, req_dict=None):
+      done = done if done else to_test
+      # req_dict = {}  {req : set(pkgs)}
+      if req_dict is None:
+         req_dict = {}
+      test_requires = []
+      for pkg in to_test:
+         for require in pkg.requires:
+            if require not in req_dict:
```

```
+                 test_requires.append(require)
+             req_dict.setdefault(require, set()).add(pkg)
+
+     if self.opts.newest_only:
+         #  Prepare cache with all packages related affected by modular filtering
+         names = set()
+         for module in self.base._moduleContainer.getModulePackages():
+             for artifact in module.getArtifacts():
+                 name, __, __ = artifact.rsplit("-", 2)
+                 names.add(name)
+         modular_related = self.base.sack.query(flags=hawkey.IGNORE_EXCLUDES).filterm(provides=names)
+
+
     requires = self.base.sack.query().filterm(empty=True)
+     for require in test_requires:
+         q = self.base.sack.query(flags=hawkey.IGNORE_EXCLUDES).filterm(provides=require)
+
+         if not q:
+             #  TODO(jmracek) Shell we end with an error or with RC 1?
+             logger.warning((_("Unable to satisfy require {}").format(require)))
+         else:
+             if self.opts.newest_only:
+                 if not modular_related.intersection(q):
+                     q.filterm(latest_per_arch_by_priority=1)
+             requires = requires.union(q.difference(done))
+     done = done.union(requires)
+     if requires:
+         done = self._get_providers_of_requires(requires, done=done, req_dict=req_dict)
+
+     return done
--
libgit2 1.1.0

Found in path(s):
* /dnf-plugins-core-imports-r8-dnf-plugins-core-4-0-21-19-el8-8-zip/dnf-plugins-core-imports-r8-dnf-plugins-core-4.0.21-19.el8_8/SOURCES/0011-Add-new-command-modulesync-RhBug1868047.patch
No license file was found, but licenses were detected in source scan.

From 40f08d7a22907e6292c314462c01de94584c0854 Mon Sep 17 00:00:00 2001
From: Marek Blaha <mblaha@redhat.com>
Date: Tue, 27 Oct 2020 15:46:03 +0100
Subject: [PATCH 1/2] [groups-manager] Re-introduce yum-groups-manager
functionality (RhBug:1826016)

Implements 'dnf groups-manager' command with features:
- read, merge, print and write groups metadata files
- edit group attributes name (with translated variants),
 description (with translated variants), uservisible, displayorder
```

```
- add packgages to group
- remove packages from group

= changelog =
msg:          Re-introduce yum-groups-manager functionality
type:         enhancement
resolves:     https://bugzilla.redhat.com/show_bug.cgi?id=1826016
---
dnf-plugins-core.spec     | 22 ++-
doc/CMakeLists.txt        |  2 +
doc/conf.py               |  2 +
doc/groups-manager.rst    | 94 ++++++++++++++
doc/index.rst             |  1 +
libexec/dnf-utils.in      |  1
 +
plugins/CMakeLists.txt    |  1 +
plugins/groups_manager.py | 314 ++++++++++++++++++++++++++++++++++++++++++++++
8 files changed, 432 insertions(+), 5 deletions(-)
create mode 100644 doc/groups-manager.rst
create mode 100644 plugins/groups_manager.py

diff --git a/dnf-plugins-core.spec b/dnf-plugins-core.spec
index d13a996..42d0884 100644
--- a/dnf-plugins-core.spec
+++ b/dnf-plugins-core.spec
@@ -58,6 +58,7 @@ Provides:       dnf-command(debug-dump)
Provides:       dnf-command(debug-restore)
Provides:       dnf-command(debuginfo-install)
Provides:       dnf-command(download)
+Provides:       dnf-command(groups-manager)
Provides:       dnf-command(repoclosure)
Provides:       dnf-command(repograph)
Provides:       dnf-command(repomanage)
@@ -73,6 +74,7 @@ Provides:       dnf-plugin-debuginfo-install = %{version}-%{release}
Provides:       dnf-plugin-download = %{version}-%{release}
Provides:       dnf-plugin-generate_completion_cache = %{version}-%{release}
Provides:       dnf-plugin-needs_restarting
 = %{version}-%{release}
+Provides:       dnf-plugin-groups-manager = %{version}-%{release}
Provides:       dnf-plugin-repoclosure = %{version}-%{release}
Provides:       dnf-plugin-repodiff = %{version}-%{release}
Provides:       dnf-plugin-repograph = %{version}-%{release}
@@ -87,7 +89,7 @@ Conflicts:      dnf-plugins-extras-common-data < %{dnf_plugins_extra}

%description
Core Plugins for DNF. This package enhances DNF with builddep, config-manager,
-copr, debug, debuginfo-install, download, needs-restarting, repoclosure,
+copr, debug, debuginfo-install, download, needs-restarting, groups-manager, repoclosure,
```

```
repograph, repomanage, reposync, changelog and repodiff commands. Additionally
provides generate_completion_cache passive plugin.

@@ -129,7 +131,8 @@ Conflicts:      python-%{name} < %{version}-%{release}
%description -n python2-%{name}
Core Plugins for DNF, Python 2 interface. This package enhances DNF with builddep,
config-manager, copr,
 degug, debuginfo-install, download, needs-restarting,
-repoclosure, repograph, repomanage, reposync, changelog and repodiff commands.
+groups-manager, repoclosure, repograph, repomanage, reposync, changelog
+and repodiff commands.
Additionally provides generate_completion_cache passive plugin.
%endif

@@ -163,7 +166,8 @@ Conflicts:      python-%{name} < %{version}-%{release}
%description -n python3-%{name}
Core Plugins for DNF, Python 3 interface. This package enhances DNF with builddep,
config-manager, copr, debug, debuginfo-install, download, needs-restarting,
-repoclosure, repograph, repomanage, reposync, changelog and repodiff commands.
+groups-manager, repoclosure, repograph, repomanage, reposync, changelog
+and repodiff commands.
Additionally provides generate_completion_cache passive plugin.
%endif

@@ -190,8 +194,8 @@ Summary:        Yum-utils CLI compatibility layer
%description -n %{yum_utils_subpackage_name}
As a Yum-utils CLI compatibility layer, supplies in CLI
 shims for
debuginfo-install, repograph, package-cleanup, repoclosure, repomanage,
-repoquery, reposync, repotrack, repodiff, builddep, config-manager, debug
-and download that use new implementations using DNF.
+repoquery, reposync, repotrack, repodiff, builddep, config-manager, debug,
+download and yum-groups-manager that use new implementations using DNF.
%endif

%if 0%{?rhel} == 0 && %{with python2}
@@ -458,6 +462,7 @@ ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yum-builddep
ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yum-config-manager
ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yum-debug-dump
ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yum-debug-restore
+ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yum-groups-manager
ln -sf %{_libexecdir}/dnf-utils %{buildroot}%{_bindir}/yumdownloader
# These commands don't have a dedicated man page, so let's just point them
# to the utils page which contains their descriptions.
@@ -483,6
 +488,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{_mandir}/man8/dnf-debuginfo-install.*
%{_mandir}/man8/dnf-download.*
```

```
%{_mandir}/man8/dnf-generate_completion_cache.*
+%{_mandir}/man8/dnf-groups-manager.*
%{_mandir}/man8/dnf-needs-restarting.*
%{_mandir}/man8/dnf-repoclosure.*
%{_mandir}/man8/dnf-repodiff.*
@@ -513,6 +519,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{python2_sitelib}/dnf-plugins/debuginfo-install.*
%{python2_sitelib}/dnf-plugins/download.*
%{python2_sitelib}/dnf-plugins/generate_completion_cache.*
+%{python2_sitelib}/dnf-plugins/groups_manager.*
%{python2_sitelib}/dnf-plugins/needs_restarting.*
%{python2_sitelib}/dnf-plugins/repoclosure.*
%{python2_sitelib}/dnf-plugins/repodiff.*
@@ -538,6 +545,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{python3_sitelib}/dnf-plugins/debuginfo-install.py
%{python3_sitelib}/dnf-plugins/download.py
%{python3_sitelib}/dnf-plugins/generate_completion_cache.py
+%{python3_sitelib}/dnf-plugins/groups_manager.py
 %{python3_sitelib}/dnf-plugins/needs_restarting.py
%{python3_sitelib}/dnf-plugins/repoclosure.py
%{python3_sitelib}/dnf-plugins/repodiff.py
@@ -552,6 +560,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{python3_sitelib}/dnf-plugins/__pycache__/debuginfo-install.*
%{python3_sitelib}/dnf-plugins/__pycache__/download.*
%{python3_sitelib}/dnf-plugins/__pycache__/generate_completion_cache.*
+%{python3_sitelib}/dnf-plugins/__pycache__/groups_manager.*
%{python3_sitelib}/dnf-plugins/__pycache__/needs_restarting.*
%{python3_sitelib}/dnf-plugins/__pycache__/repoclosure.*
%{python3_sitelib}/dnf-plugins/__pycache__/repodiff.*
@@ -579,6 +588,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{_bindir}/yum-config-manager
%{_bindir}/yum-debug-dump
%{_bindir}/yum-debug-restore
+%{_bindir}/yum-groups-manager
%{_bindir}/yumdownloader
%{_mandir}/man1/debuginfo-install.*
%{_mandir}/man1/needs-restarting.*
@@
 -591,6 +601,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%{_mandir}/man1/yum-config-manager.*
%{_mandir}/man1/yum-debug-dump.*
%{_mandir}/man1/yum-debug-restore.*
+%{_mandir}/man1/yum-groups-manager.*
%{_mandir}/man1/yumdownloader.*
%{_mandir}/man1/package-cleanup.*
%{_mandir}/man1/dnf-utils.*
@@ -612,6 +623,7 @@ PYTHONPATH=./plugins nosetests-%{python3_version} -s tests/
%exclude %{_mandir}/man1/yum-config-manager.*
```

```
%exclude %{_mandir}/man1/yum-debug-dump.*
%exclude %{_mandir}/man1/yum-debug-restore.*
+%exclude %{_mandir}/man1/yum-groups-manager.*
%exclude %{_mandir}/man1/yumdownloader.*
%exclude %{_mandir}/man1/package-cleanup.*
%exclude %{_mandir}/man1/dnf-utils.*
diff --git a/doc/CMakeLists.txt b/doc/CMakeLists.txt
index dd97eb2..3fb665d 100644
--- a/doc/CMakeLists.txt
+++ b/doc/CMakeLists.txt
@@ -26,6 +26,7 @@ INSTALL(FILES ${CMAKE_CURRENT_BINARY_DIR}/dnf-builddep.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-debuginfo-install.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-download.8
    ${CMAKE_CURRENT_BINARY_DIR}/dnf-generate_completion_cache.8
+   ${CMAKE_CURRENT_BINARY_DIR}/dnf-groups-manager.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-leaves.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-needs-restarting.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-repoclosure.8
@@ -61,6 +62,7 @@ INSTALL(FILES ${CMAKE_CURRENT_BINARY_DIR}/debuginfo-install.1
   ${CMAKE_CURRENT_BINARY_DIR}/yum-config-manager.1
   ${CMAKE_CURRENT_BINARY_DIR}/yum-debug-dump.1
   ${CMAKE_CURRENT_BINARY_DIR}/yum-debug-restore.1
+   ${CMAKE_CURRENT_BINARY_DIR}/yum-groups-manager.1
   ${CMAKE_CURRENT_BINARY_DIR}/yumdownloader.1
   ${CMAKE_CURRENT_BINARY_DIR}/package-cleanup.1
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-utils.1
diff --git a/doc/conf.py b/doc/conf.py
index d760ef3..645185a 100644
--- a/doc/conf.py
+++ b/doc/conf.py
@@ -251,6 +251,7 @@ man_pages = [
   ('download', 'dnf-download', u'DNF download Plugin', AUTHORS, 8),
   ('generate_completion_cache', 'dnf-generate_completion_cache',
       u'DNF generate_completion_cache Plugin', AUTHORS, 8),
+   ('groups-manager', 'dnf-groups-manager', u'DNF groups-manager Plugin', AUTHORS, 8),
   ('leaves', 'dnf-leaves', u'DNF leaves Plugin', AUTHORS, 8),
   ('local', 'dnf-local', u'DNF local Plugin', AUTHORS, 8),
   ('needs_restarting', 'dnf-needs-restarting', u'DNF needs_restarting Plugin', AUTHORS, 8),
@@ -268,6 +269,7 @@ man_pages = [
   ('copr', 'yum-copr', u'redirecting to DNF copr Plugin', AUTHORS, 8),
   ('debuginfo-install', 'debuginfo-install', u'redirecting to DNF debuginfo-install Plugin',
    AUTHORS, 1),
+   ('groups-manager', 'yum-groups-manager', u'redirecting to DNF groups-manager Plugin', AUTHORS, 1),
   ('needs_restarting', 'needs-restarting', u'redirecting to DNF needs-restarting Plugin',
    AUTHORS, 1),
   ('repoclosure', 'repoclosure', u'redirecting to DNF repoclosure Plugin', AUTHORS, 1),
diff --git a/doc/groups-manager.rst b/doc/groups-manager.rst
new file mode 100644
```

```
index
 0000000..f8f76a1
--- /dev/null
+++ b/doc/groups-manager.rst
@@ -0,0 +1,94 @@
+..
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+
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+
+=========================
+DNF groups-manager Plugin
+=========================
+
+Create and edit groups repository metadata files.
+
+--------
+Synopsis
+--------
+
+``dnf groups-manager [options] [package-name-spec [package-name-spec ...]]``
+
+-----------
+Description
+-----------
+groups-manager plugin is used to create or edit a group metadata file for a repository. This is often much easier than writing/editing the XML by hand. The groups-manager can load an entire file of groups metadata and either create a new group or edit an existing group and then write all of the groups metadata back out.
+
+---------
+Arguments
+---------
+
+``<package-name-spec>``
+    Package to add to a group or remove from a group.
```

+
+-------
+Options
+-------
+
+All general DNF options are accepted, see `Options` in :manpage:`dnf(8)` for details.
+
+``--load=<path_to_comps.xml>``
+   Load the groups metadata information from the specified file
 before performing any operations. Metadata from all files are merged together if the option is specified multiple times.
+
+``--save=<path_to_comps.xml>``
+   Save the result to this file. You can specify the name of a file you are loading from as the data will only be saved when all the operations have been performed. This option can also be specified multiple times.
+
+``--merge=<path_to_comps.xml>``
+   This is the same as loading and saving a file, however the "merge" file is loaded before any others and saved last.
+
+``--print``
+   Also print the result to stdout.
+
+``--id=<id>``
+   The id to lookup/use for the group. If you don't specify an ``<id>``, but do specify a name that doesn't refer to an existing group, then an id for the group is generated based on the name.
+
+``-n <name>, --name=<name>``
+   The name to lookup/use for the group. If you specify an existing group id, then the group with that id will have it's name changed to this value.
+
+``--description=<description>``
+
+   The description to use for the group.
+
+``--display-order=<display_order>``
+   Change the integer which controls the order groups are presented in, for example in ``dnf grouplist``.
+
+``--translated-name=<lang:text>``
+   A translation of the group name in the given language. The syntax is ``lang:text``. Eg. ``en:my-group-name-in-english``
+
+``--translated-description=<lang:text>``
+   A translation of the group description in the given language. The syntax is ``lang:text``. Eg. ``en:my-group-description-in-english``.
+
+``--user-visible``
+   Make the group visible in ``dnf grouplist`` (this is the default).

```
+
+``--not-user-visible``
+    Make the group not visible in ``dnf grouplist``.
+
+``--mandatory``
+    Store the package names specified within the mandatory section of the specified group, the default is to use the
default section.
+
+``--optional``
+    Store the package names specified within the optional section of the specified group, the default is to
 use the default section.
+
+``--remove``
+    Instead of adding packages remove them. Note that the packages are removed from all sections (default,
mandatory and optional).
+
+``--dependencies``
+    Also include the names of the direct dependencies for each package specified.
diff --git a/doc/index.rst b/doc/index.rst
index 91bb36e..7213253 100644
--- a/doc/index.rst
+++ b/doc/index.rst
@@ -33,6 +33,7 @@ This documents core plugins of DNF:
   debuginfo-install
   download
   generate_completion_cache
+   groups-manager
   leaves
   local
   migrate
diff --git a/libexec/dnf-utils.in b/libexec/dnf-utils.in
index 667ce13..af1e893 100644
--- a/libexec/dnf-utils.in
+++ b/libexec/dnf-utils.in
@@ -37,6 +37,7 @@ MAPPING = {'debuginfo-install': ['debuginfo-install'],
          'yum-config-manager': ['config-manager'],
          'yum-debug-dump': ['debug-dump'],
          'yum-debug-restore': ['debug-restore'],
+          'yum-groups-manager': ['groups-manager'],
          'yumdownloader':
 ['download']
          }

diff --git a/plugins/CMakeLists.txt b/plugins/CMakeLists.txt
index 7465e53..f66d3df 100644
--- a/plugins/CMakeLists.txt
+++ b/plugins/CMakeLists.txt
@@ -6,6 +6,7 @@ INSTALL (FILES config_manager.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-
```

```
plugins)
INSTALL (FILES copr.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES download.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES generate_completion_cache.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
+INSTALL (FILES groups_manager.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES leaves.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
if (${WITHOUT_LOCAL} STREQUAL "0")
INSTALL (FILES local.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
diff --git a/plugins/groups_manager.py b/plugins/groups_manager.py
new file mode 100644
index 0000000..382df37
--- /dev/null
+++ b/plugins/groups_manager.py
@@ -0,0 +1,314 @@
+# groups_manager.py
+# DNF plugin for
 managing comps groups metadata files
+#
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+# source code or documentation are not subject to the GNU General Public
+# License and may only be used or replicated with the express permission of
+# Red Hat,
 Inc.
+#
+
+from __future__ import absolute_import
+from __future__ import unicode_literals
+
+import argparse
+import gzip
+import libcomps
+import os
+import re
+import shutil
+import tempfile
+
+from dnfpluginscore import _, logger
```

```
+import dnf
+import dnf.cli
+
+
+RE_GROUP_ID_VALID = '-a-z0-9_.:'
+RE_GROUP_ID = re.compile(r'^[{}]+$'.format(RE_GROUP_ID_VALID))
+RE_LANG = re.compile(r'^[-a-zA-Z0-9_.@]+$')
+COMPS_XML_OPTIONS = {
+    'default_explicit': True,
+    'uservisible_explicit': True,
+    'empty_groups': True}
+
+
+def group_id_type(value):
+    '''group id validator'''
+    if not RE_GROUP_ID.match(value):
+        raise argparse.ArgumentTypeError(_('Invalid group id'))
+    return value
+
+
+def translation_type(value):
+    '''translated texts validator'''
+    data = value.split(':', 2)
+    if len(data) != 2:
+        raise argparse.ArgumentTypeError(
+            _("Invalid translated data, should be in form 'lang:text'"))
+    lang, text = data
+    if not RE_LANG.match(lang):
+
        raise argparse.ArgumentTypeError(_('Invalid/empty language for translated data'))
+    return lang, text
+
+
+def text_to_id(text):
+    '''generate group id based on its name'''
+    group_id = text.lower()
+    group_id = re.sub('[^{}]'.format(RE_GROUP_ID_VALID), '', group_id)
+    if not group_id:
+        raise dnf.cli.CliError(
+            _("Can't generate group id from '{}'. Please specify group id using --id.").format(
+                text))
+    return group_id
+
+
+@dnf.plugin.register_command
+class GroupsManagerCommand(dnf.cli.Command):
+    aliases = ('groups-manager',)
+    summary = _('create and edit groups metadata file')
```

```
+
+    def __init__(self, cli):
+        super(GroupsManagerCommand, self).__init__(cli)
+        self.comps = libcomps.Comps()
+
+    @staticmethod
+    def set_argparser(parser):
+        # input / output options
+        parser.add_argument('--load', action='append', default=[],
+                            metavar='COMPS.XML',
+
                           help=_('load groups metadata from file'))
+        parser.add_argument('--save', action='append', default=[],
+                            metavar='COMPS.XML',
+                            help=_('save groups metadata to file'))
+        parser.add_argument('--merge', metavar='COMPS.XML',
+                            help=_('load and save groups metadata to file'))
+        parser.add_argument('--print', action='store_true', default=False,
+                            help=_('print the result metadata to stdout'))
+        # group options
+        parser.add_argument('--id', type=group_id_type,
+                            help=_('group id'))
+        parser.add_argument('-n', '--name', help=_('group name'))
+        parser.add_argument('--description',
+                            help=_('group description'))
+        parser.add_argument('--display-order', type=int,
+                            help=_('group display order'))
+        parser.add_argument('--translated-name',
 action='append', default=[],
+                            metavar='LANG:TEXT', type=translation_type,
+                            help=_('translated name for the group'))
+        parser.add_argument('--translated-description', action='append', default=[],
+                            metavar='LANG:TEXT', type=translation_type,
+                            help=_('translated description for the group'))
+        visible = parser.add_mutually_exclusive_group()
+        visible.add_argument('--user-visible', dest='user_visible', action='store_true',
+                             default=None,
+                             help=_('make the group user visible (default)'))
+        visible.add_argument('--not-user-visible', dest='user_visible', action='store_false',
+                             default=None,
+                             help=_('make the group user invisible'))
+
+        # package list options
+        section = parser.add_mutually_exclusive_group()
+
      section.add_argument('--mandatory', action='store_true',
+                             help=_('add packages to the mandatory section'))
+        section.add_argument('--optional', action='store_true',
```

```
+                       help=_('add packages to the optional section'))
+     section.add_argument('--remove', action='store_true', default=False,
+                       help=_('remove packages from the group instead of adding them'))
+     parser.add_argument('--dependencies', action='store_true',
+                       help=_('include also direct dependencies for packages'))
+
+     parser.add_argument("packages", nargs='*', metavar='PACKAGE',
+                       help=_('package specification'))
+
+   def configure(self):
+     demands = self.cli.demands
+
+     if self.opts.packages:
+        demands.sack_activation = True
+        demands.available_repos = True
+        demands.load_system_repo = False
+
+     # handle
 --merge option (shortcut to --load and --save the same file)
+     if self.opts.merge:
+        self.opts.load.insert(0, self.opts.merge)
+        self.opts.save.append(self.opts.merge)
+
+     # check that group is specified when editing is attempted
+     if (self.opts.description
+           or self.opts.display_order
+           or self.opts.translated_name
+           or self.opts.translated_description
+           or self.opts.user_visible is not None
+           or self.opts.packages):
+        if not self.opts.id and not self.opts.name:
+           raise dnf.cli.CliError(
+              _("Can't edit group without specifying it (use --id or --name)"))
+
+   def load_input_files(self):
+     """
+     Loads all input xml files.
+     Returns True if at least one file was successfuly loaded
+     """
+     for file_name in self.opts.load:
+        file_comps = libcomps.Comps()
+        try:
+
       if file_name.endswith('.gz'):
+           # libcomps does not support gzipped files - decompress to temporary
+           # location
+           with gzip.open(file_name) as gz_file:
+              temp_file = tempfile.NamedTemporaryFile(delete=False)
```

```
+                try:
+                    shutil.copyfileobj(gz_file, temp_file)
+                    # close temp_file to ensure the content is flushed to disk
+                    temp_file.close()
+                    file_comps.fromxml_f(temp_file.name)
+                finally:
+                    os.unlink(temp_file.name)
+            else:
+                file_comps.fromxml_f(file_name)
+        except (IOError, OSError, libcomps.ParserError) as err:
+            # gzip module raises OSError on reading from malformed gz file
+            # get_last_errors() output often contains duplicit lines, remove them
+
             seen = set()
+            for error in file_comps.get_last_errors():
+                if error in seen:
+                    continue
+                logger.error(error.strip())
+                seen.add(error)
+            raise dnf.exceptions.Error(
+                _("Can't load file \"{}\": {}").format(file_name, err))
+        else:
+            self.comps += file_comps
+
+    def save_output_files(self):
+        for file_name in self.opts.save:
+            try:
+                # xml_f returns a list of errors / log entries
+                errors = self.comps.xml_f(file_name, xml_options=COMPS_XML_OPTIONS)
+            except libcomps.XMLGenError as err:
+                errors = [err]
+            if errors:
+                # xml_f() method could return more than one error. In this case
+                # raise the latest of them and log the others.
+                for err in errors[:-1]:
+                    logger.error(err.strip())
+
             raise dnf.exceptions.Error(_("Can't save file \"{}\": {}").format(
+                    file_name, errors[-1].strip()))
+
+
+    def find_group(self, group_id, name):
+        '''
+        Try to find group according to command line parameters - first by id
+        then by name.
+        '''
+        group = None
+        if group_id:
```

```
+            for grp in self.comps.groups:
+                if grp.id == group_id:
+                    group = grp
+                    break
+        if group is None and name:
+            for grp in self.comps.groups:
+                if grp.name == name:
+                    group = grp
+                    break
+        return group
+
+    def edit_group(self, group):
+        '''
+        Set attributes and package lists for selected group
+        '''
+        def langlist_to_strdict(lst):
+            str_dict = libcomps.StrDict()
+            for lang, text in lst:
+                str_dict[lang] = text
+
    return str_dict
+
+        # set group attributes
+        if self.opts.name:
+            group.name = self.opts.name
+        if self.opts.description:
+            group.desc = self.opts.description
+        if self.opts.display_order:
+            group.display_order = self.opts.display_order
+        if self.opts.user_visible is not None:
+            group.uservisible = self.opts.user_visible
+        if self.opts.translated_name:
+            group.name_by_lang = langlist_to_strdict(self.opts.translated_name)
+        if self.opts.translated_description:
+            group.desc_by_lang = langlist_to_strdict(self.opts.translated_description)
+
+        # edit packages list
+        if self.opts.packages:
+            # find packages according to specifications from command line
+            packages = set()
+            for pkg_spec in self.opts.packages:
+                q = self.base.sack.query().filterm(name__glob=pkg_spec).latest()
+                if not q:
+
        logger.warning(_("No match for argument: {}").format(pkg_spec))
+                    continue
+                packages.update(q)
+            if self.opts.dependencies:
```

```
+            # add packages that provide requirements
+            requirements = set()
+            for pkg in packages:
+                requirements.update(pkg.requires)
+            packages.update(self.base.sack.query().filterm(provides=requirements))
+
+        pkg_names = {pkg.name for pkg in packages}
+
+        if self.opts.remove:
+            for pkg_name in pkg_names:
+                for pkg in group.packages_match(name=pkg_name,
+                                                type=libcomps.PACKAGE_TYPE_UNKNOWN):
+                    group.packages.remove(pkg)
+        else:
+            if self.opts.mandatory:
+                pkg_type = libcomps.PACKAGE_TYPE_MANDATORY
+            elif self.opts.optional:
+                pkg_type
 = libcomps.PACKAGE_TYPE_OPTIONAL
+            else:
+                pkg_type = libcomps.PACKAGE_TYPE_DEFAULT
+            for pkg_name in sorted(pkg_names):
+                if not group.packages_match(name=pkg_name, type=pkg_type):
+                    group.packages.append(libcomps.Package(name=pkg_name, type=pkg_type))
+
+    def run(self):
+        self.load_input_files()
+
+        if self.opts.id or self.opts.name:
+            # we are adding / editing a group
+            group = self.find_group(group_id=self.opts.id, name=self.opts.name)
+            if group is None:
+                # create a new group
+                if self.opts.remove:
+                    raise dnf.exceptions.Error(_("Can't remove packages from non-existent group"))
+                group = libcomps.Group()
+                if self.opts.id:
+                    group.id = self.opts.id
+                    group.name = self.opts.id
+                elif self.opts.name:
+
        group_id = text_to_id(self.opts.name)
+                if self.find_group(group_id=group_id, name=None):
+                    raise dnf.cli.CliError(
+                        _("Group id '{}' generated from '{}' is duplicit. "
+                          "Please specify group id using --id.").format(
+                              group_id, self.opts.name))
+                group.id = group_id
```

```
+                self.comps.groups.append(group)
+            self.edit_group(group)
+
+        self.save_output_files()
+        if self.opts.print or (not self.opts.save):
+            print(self.comps.xml_str(xml_options=COMPS_XML_OPTIONS))
--
2.26.2

Found in path(s):
* /dnf-plugins-core-imports-r8-dnf-plugins-core-4-0-21-19-el8-8-zip/dnf-plugins-core-imports-r8-dnf-plugins-core-4.0.21-19.el8_8/SOURCES/0001-groups-manager-Re-introduce-yum-groups-manager-funct.patch
No license file was found, but licenses were detected in source scan.

From 54eba8059b07b31b2caa27b48269e74da959eaa6 Mon Sep 17 00:00:00 2001
From: Jan Kolarik <jkolarik@redhat.com>
Date: Thu, 22 Sep 2022 16:02:55 +0000
Subject: [PATCH] Move system-upgrade plugin to core (RhBug:2054235)

= changelog =
type: bugfix
resolves: https://bugzilla.redhat.com/show_bug.cgi?id=2054235
---
CMakeLists.txt                          |  15 +
dnf-plugins-core.spec                   |  38 +-
doc/CMakeLists.txt                      |   1 +
doc/conf.py                             |   1 +
doc/index.rst                           |   1 +
doc/system-upgrade.rst                  | 207 ++++++
etc/CMakeLists.txt                      |   1 +
etc/systemd/CMakeLists.txt              |   1 +
.../dnf-system-upgrade-cleanup.service  |  11 +
etc/systemd/dnf-system-upgrade.service  |  20 +
plugins/CMakeLists.txt                  |   1 +
plugins/system_upgrade.py
                | 699 ++++++++++++++++++++
tests/test_system_upgrade.py            | 502 ++++++++++++++
13 files changed, 1494 insertions(+), 4 deletions(-)
create mode 100644 doc/system-upgrade.rst
create mode 100644 etc/systemd/CMakeLists.txt
create mode 100644 etc/systemd/dnf-system-upgrade-cleanup.service
create mode 100644 etc/systemd/dnf-system-upgrade.service
create mode 100644 plugins/system_upgrade.py
create mode 100644 tests/test_system_upgrade.py

diff --git a/CMakeLists.txt b/CMakeLists.txt
index f143905..bd5f35b 100644
--- a/CMakeLists.txt
```

```
+++ b/CMakeLists.txt
@@ -23,6 +23,21 @@ MESSAGE(STATUS "Python install dir is ${PYTHON_INSTALL_DIR}")

SET (SYSCONFDIR /etc)

+find_package (PkgConfig)
+
+if (PKG_CONFIG_FOUND)
+  pkg_search_module (SYSTEMD systemd)
+  if (SYSTEMD_FOUND)
+    execute_process (COMMAND ${PKG_CONFIG_EXECUTABLE} --variable=systemdsystemunitdir systemd
+                     OUTPUT_VARIABLE SYSTEMD_DIR
+
+  OUTPUT_STRIP_TRAILING_WHITESPACE)
+  endif ()
+endif()
+
+if (NOT SYSTEMD_DIR)
+  set (SYSTEMD_DIR /usr/lib/systemd/system)
+endif ()
+
ADD_SUBDIRECTORY (libexec)
ADD_SUBDIRECTORY (doc)
ADD_SUBDIRECTORY (etc)
diff --git a/dnf-plugins-core.spec b/dnf-plugins-core.spec
index afdbcbb..0e1c9e3 100644
--- a/dnf-plugins-core.spec
+++ b/dnf-plugins-core.spec
@@ -64,6 +64,9 @@ Provides:       dnf-command(repograph)
Provides:       dnf-command(repomanage)
Provides:       dnf-command(reposync)
Provides:       dnf-command(repodiff)
+Provides:       dnf-command(system-upgrade)
+Provides:       dnf-command(offline-upgrade)
+Provides:       dnf-command(offline-distrosync)
Provides:       dnf-plugins-extras-debug = %{version}-%{release}
Provides:       dnf-plugins-extras-repoclosure = %{version}-%{release}
Provides:       dnf-plugins-extras-repograph = %{version}-%{release}
@@ -80,6 +83,7 @@ Provides:       dnf-plugin-repodiff = %{version}-%{release}
Provides:       dnf-plugin-repograph =
 %{version}-%{release}
Provides:       dnf-plugin-repomanage = %{version}-%{release}
Provides:       dnf-plugin-reposync = %{version}-%{release}
+Provides:       dnf-plugin-system-upgrade = %{version}-%{release}
%if %{with yumcompatibility}
Provides:       yum-plugin-copr = %{version}-%{release}
Provides:       yum-plugin-changelog = %{version}-%{release}
@@ -133,8 +137,8 @@ Conflicts:      python-%{name} < %{version}-%{release}
```

```
%description -n python2-%{name}
Core Plugins for DNF, Python 2 interface. This package enhances DNF with builddep,
config-manager, copr, degug, debuginfo-install, download, needs-restarting,
-groups-manager, repoclosure, repograph, repomanage, reposync, changelog
-and repodiff commands.
+groups-manager, repoclosure, repograph, repomanage, reposync, changelog,
+repodiff, system-upgrade, offline-upgrade and offline-distrosync commands.
Additionally provides generate_completion_cache passive plugin.
%endif

@@ -145,6 +149,10 @@ Summary:    Core Plugins for
 DNF
BuildRequires:  python3-dbus
BuildRequires:  python3-devel
BuildRequires:  python3-dnf >= %{dnf_lowest_compatible}
+BuildRequires:  python3-systemd
+BuildRequires:  pkgconfig(systemd)
+BuildRequires:  systemd
+%{?systemd_ordering}
%if 0%{?fedora}
Requires:       python3-distro
%endif
@@ -152,14 +160,17 @@ Requires:       python3-dbus
Requires:       python3-dnf >= %{dnf_lowest_compatible}
Requires:       python3-hawkey >= %{hawkey_version}
Requires:       python3-dateutil
+Requires:       python3-systemd
Provides:       python3-dnf-plugins-extras-debug = %{version}-%{release}
Provides:       python3-dnf-plugins-extras-repoclosure = %{version}-%{release}
Provides:       python3-dnf-plugins-extras-repograph = %{version}-%{release}
Provides:       python3-dnf-plugins-extras-repomanage = %{version}-%{release}
+Provides:       python3-dnf-plugin-system-upgrade = %{version}-%{release}
Obsoletes:      python3-dnf-plugins-extras-debug < %{dnf_plugins_extra}
Obsoletes:
  python3-dnf-plugins-extras-repoclosure < %{dnf_plugins_extra}
Obsoletes:      python3-dnf-plugins-extras-repograph < %{dnf_plugins_extra}
Obsoletes:      python3-dnf-plugins-extras-repomanage < %{dnf_plugins_extra}
+Obsoletes:      python3-dnf-plugin-system-upgrade < %{version}-%{release}

Conflicts:      %{name} <= 0.1.5
# let the both python plugin versions be updated simultaneously
@@ -169,8 +180,8 @@ Conflicts:      python-%{name} < %{version}-%{release}
%description -n python3-%{name}
Core Plugins for DNF, Python 3 interface. This package enhances DNF with builddep,
config-manager, copr, debug, debuginfo-install, download, needs-restarting,
-groups-manager, repoclosure, repograph, repomanage, reposync, changelog
-and repodiff commands.
+groups-manager, repoclosure, repograph, repomanage, reposync, changelog,
```

```
+repodiff, system-upgrade, offline-upgrade and offline-distrosync commands.
Additionally provides generate_completion_cache passive plugin.
%endif

@@ -451,6 +462,17
 @@ pushd build-py3
  %make_install
popd
%endif
+
+%if %{with python3}
+mkdir -p %{buildroot}%{_unitdir}/system-update.target.wants/
+pushd %{buildroot}%{_unitdir}/system-update.target.wants/
+  ln -sr ../dnf-system-upgrade.service
+popd
+
+ln -sf %{_mandir}/man8/dnf-system-upgrade.8.gz %{buildroot}%{_mandir}/man8/dnf-offline-upgrade.8.gz
+ln -sf %{_mandir}/man8/dnf-system-upgrade.8.gz %{buildroot}%{_mandir}/man8/dnf-offline-distrosync.8.gz
+%endif
+
%find_lang %{name}
%if %{with yumutils}
  %if %{with python3}
@@ -515,6 +537,9 @@ ln -sf %{_mandir}/man1/%{yum_utils_subpackage_name}.1.gz
%{buildroot}%{_mandir}/
%{_mandir}/man8/dnf-repograph.*
%{_mandir}/man8/dnf-repomanage.*
%{_mandir}/man8/dnf-reposync.*
+%{_mandir}/man8/dnf-system-upgrade.*
+%{_mandir}/man8/dnf-offline-upgrade.*
+%{_mandir}/man8/dnf-offline-distrosync.*
%if %{with yumcompatibility}
%{_mandir}/man1/yum-changelog.*
%{_mandir}/man8/yum-copr.*
@@ -572,6 +597,7 @@ ln -sf %{_mandir}/man1/%{yum_utils_subpackage_name}.1.gz
 %{buildroot}%{_mandir}/
%{python3_sitelib}/dnf-plugins/repograph.py
%{python3_sitelib}/dnf-plugins/repomanage.py
%{python3_sitelib}/dnf-plugins/reposync.py
+%{python3_sitelib}/dnf-plugins/system_upgrade.py
%{python3_sitelib}/dnf-plugins/__pycache__/builddep.*
%{python3_sitelib}/dnf-plugins/__pycache__/changelog.*
%{python3_sitelib}/dnf-plugins/__pycache__/config_manager.*
@@ -587,7 +613,11 @@ ln -sf %{_mandir}/man1/%{yum_utils_subpackage_name}.1.gz
%{buildroot}%{_mandir}/
%{python3_sitelib}/dnf-plugins/__pycache__/repograph.*
%{python3_sitelib}/dnf-plugins/__pycache__/repomanage.*
%{python3_sitelib}/dnf-plugins/__pycache__/reposync.*
```

```
+%{python3_sitelib}/dnf-plugins/__pycache__/system_upgrade.*
%{python3_sitelib}/dnfpluginscore/
+%{_unitdir}/dnf-system-upgrade.service
+%{_unitdir}/dnf-system-upgrade-cleanup.service
+%{_unitdir}/system-update.target.wants/dnf-system-upgrade.service
%endif

%if %{with yumutils}
diff --git a/doc/CMakeLists.txt b/doc/CMakeLists.txt
index
 ff84cf8..79472a5 100644
--- a/doc/CMakeLists.txt
+++ b/doc/CMakeLists.txt
@@ -37,6 +37,7 @@ INSTALL(FILES ${CMAKE_CURRENT_BINARY_DIR}/dnf-builddep.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-reposync.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-post-transaction-actions.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-show-leaves.8
+   ${CMAKE_CURRENT_BINARY_DIR}/dnf-system-upgrade.8
   ${CMAKE_CURRENT_BINARY_DIR}/dnf-versionlock.8
   ${CMAKE_CURRENT_BINARY_DIR}/yum-copr.8
   ${CMAKE_CURRENT_BINARY_DIR}/yum-versionlock.8
diff --git a/doc/conf.py b/doc/conf.py
index 41d6936..327ac07 100644
--- a/doc/conf.py
+++ b/doc/conf.py
@@ -264,6 +264,7 @@ man_pages = [
   ('post-transaction-actions', 'dnf-post-transaction-actions',
    u'DNF post transaction actions Plugin', AUTHORS, 8),
   ('show-leaves', 'dnf-show-leaves', u'DNF show-leaves Plugin', AUTHORS, 8),
+   ('system-upgrade', 'dnf-system-upgrade', u'DNF system-upgrade Plugin', AUTHORS, 8),
   ('versionlock', 'dnf-versionlock', u'DNF versionlock
 Plugin', AUTHORS, 8),

   # yum3 compatible layer for manpages
diff --git a/doc/index.rst b/doc/index.rst
index 07f6052..251a24e 100644
--- a/doc/index.rst
+++ b/doc/index.rst
@@ -46,6 +46,7 @@ This documents core plugins of DNF:
  repomanage
  reposync
  show-leaves
+  system-upgrade
  versionlock


diff --git a/doc/system-upgrade.rst b/doc/system-upgrade.rst
new file mode 100644
```

```
index 0000000..3110460
--- /dev/null
+++ b/doc/system-upgrade.rst
@@ -0,0 +1,207 @@
+..
+  Copyright (C) 2014-2016 Red Hat, Inc.
+
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+  Red Hat, Inc.
+
+=========================
+DNF system-upgrade Plugin
+=========================
+
+-----------
+Description
+-----------
+
+DNF system-upgrades plugin provides three commands: ``system-upgrade``, ``offline-upgrade``, and
+``offline-distrosync``. Only ``system-upgrade`` command requires increase of distribution major
+version (``--releasever``) compared to installed version.
+
+``dnf system-upgrade`` can be used to upgrade a Fedora system to a new major
+release. It replaces fedup (the old Fedora Upgrade tool). Before you proceed
 ensure that your system
+is fully upgraded (``dnf --refresh upgrade``).
+
+The ``system-upgrade`` command also performes additional actions necessary for the upgrade of the
+system, for example an upgrade of groups and environments.
+
+--------
+Synopsis
+--------
+
+``dnf system-upgrade download --releasever VERSION [OPTIONS]``
+
```

+``dnf system-upgrade reboot``
+
+``dnf system-upgrade clean``
+
+``dnf system-upgrade log``
+
+``dnf system-upgrade log --number=<number>``
+
+``dnf offline-upgrade download [OPTIONS]``
+
+``dnf offline-upgrade reboot``
+
+``dnf offline-upgrade clean``
+
+``dnf offline-upgrade log``
+
+``dnf offline-upgrade log --number=<number>``
+
+``dnf offline-distrosync download [OPTIONS]``
+
+``dnf offline-distrosync reboot``
+
+``dnf offline-distrosync clean``
+
+``dnf offline-distrosync log``
+
+``dnf offline-distrosync log --number=<number>``
+
+----------
+Subcommands
+----------
+
+``download``
+ Downloads everything needed to upgrade to a new major release.
+
+``reboot``
+
  Prepares the system to perform the upgrade, and reboots to start the upgrade.
+ This can only be used after the ``download`` command completes successfully.
+
+``clean``
+ Remove previously-downloaded data. This happens automatically at the end of
+ a successful upgrade.
+
+``log``
+ Used to see a list of boots during which an upgrade was attempted, or show
+ the logs from an upgrade attempt. The logs for one of the boots can be shown
+ by specifying one of the numbers in the first column. Negative numbers can

+ be used to number the boots from last to first. For example, ``log --number=-1`` can
+ be used to see the logs for the last upgrade attempt.
+
+-------
+Options
+-------
+
+``--releasever=VERSION``
+ REQUIRED. The version to upgrade to. Sets ``$releasever`` in all enabled
+ repos. Usually a number, or ``rawhide``.
+
+``--downloaddir=<path>``
+ Redirect download of packages to provided ``<path>``. By default, packages
+
 are downloaded into (per repository created) subdirectories of
+ /var/lib/dnf/system-upgrade.
+
+``--distro-sync``
+ Behave like ``dnf distro-sync``: always install packages from the new
+ release, even if they are older than the currently-installed version. This
+ is the default behavior.
+
+``--no-downgrade``
+ Behave like ``dnf update``: do not install packages from the new release
+ if they are older than what is currently installed. This is the opposite of
+ ``--distro-sync``. If both are specified, the last option will be used. The option cannot be
+ used with the ``offline-distrosync`` command.
+
+``--number``
+ Applied with ``log`` subcommand will show the log specified by the number.
+
+-----
+Notes
+-----
+
+``dnf system-upgrade reboot`` does not create a "System Upgrade" boot item. The
+upgrade will start regardless of which boot item is chosen.
+
+The ``DNF_SYSTEM_UPGRADE_NO_REBOOT`` environment variable can be set to a
+non-empty value to disable
 the actual reboot performed by ``system-upgrade``
+(e.g. for testing purposes).
+
+Since this is a DNF plugin, options accepted by ``dnf`` are also valid here,
+such as ``--allowerasing``.
+See :manpage:`dnf(8)` for more information.
+
+The ``fedup`` command is not provided, not even as an alias for

+``dnf system-upgrade``.
+
+----
+Bugs
+----
+
+Upgrading from install media (e.g. a DVD or .iso file) currently requires the
+user to manually set up a DNF repo and fstab entry for the media.
+
+--------
+Examples
+--------
+
+Typical upgrade usage
+---------------------
+
+``dnf --refresh upgrade``
+
+``dnf system-upgrade download --releasever 26``
+
+``dnf system-upgrade reboot``
+
+Show logs from last upgrade attempt
+-----------------------------------
+
+``dnf system-upgrade log --number=-1``
+
+--------------
+Reporting Bugs
+--------------
+
+Bugs should be filed here:
+
+ https://bugzilla.redhat.com/
+
+For more info on filing bugs, see the Fedora Project wiki:
+
+ https://fedoraproject.org/wiki/How_to_file_a_bug_report
+
+
  https://fedoraproject.org/wiki/Bugs_and_feature_requests
+
+Please include ``/var/log/dnf.log`` and the output of
+``dnf system-upgrade log --number=-1`` (if applicable) in your bug reports.
+
+Problems with dependency solving during download are best reported to the
+maintainers of the package(s) with the dependency problems.
+

```
+Similarly, problems encountered on your system after the upgrade completes
+should be reported to the maintainers of the affected components. In other
+words: if (for example) KDE stops working, it's best if you report that to
+the KDE maintainers.
+
+--------
+See Also
+--------
+
+:manpage:`dnf(8)`,
+:manpage:`dnf.conf(5)`,
+:manpage:`journalctl(1)`.
+
+Project homepage
+----------------
+
+https://github.com/rpm-software-management/dnf-plugins-core
+
+-------
+Authors
+-------
+
+Will Woods <wwoods@redhat.com>
+
+Štpán Smetana <ssmetana@redhat.com>
diff --git a/etc/CMakeLists.txt b/etc/CMakeLists.txt
index 2e9cccd..a892f8a
 100644
--- a/etc/CMakeLists.txt
+++ b/etc/CMakeLists.txt
@@ -1 +1,2 @@
ADD_SUBDIRECTORY (dnf)
+ADD_SUBDIRECTORY (systemd)
diff --git a/etc/systemd/CMakeLists.txt b/etc/systemd/CMakeLists.txt
new file mode 100644
index 0000000..8a29403
--- /dev/null
+++ b/etc/systemd/CMakeLists.txt
@@ -0,0 +1 @@
+INSTALL (FILES "dnf-system-upgrade.service" "dnf-system-upgrade-cleanup.service" DESTINATION
${SYSTEMD_DIR})
diff --git a/etc/systemd/dnf-system-upgrade-cleanup.service b/etc/systemd/dnf-system-upgrade-cleanup.service
new file mode 100644
index 0000000..49f771c
--- /dev/null
+++ b/etc/systemd/dnf-system-upgrade-cleanup.service
@@ -0,0 +1,11 @@
+[Unit]
```

```
+Description=System Upgrade using DNF failed
+DefaultDependencies=no
+
+[Service]
+Type=oneshot
+# Remove the symlink if it's still there, to protect against reboot loops.
+ExecStart=/usr/bin/rm -fv /system-update
+# If anything goes wrong, reboot back to the normal system.
+ExecStart=/usr/bin/systemctl --no-block reboot
+
diff --git
 a/etc/systemd/dnf-system-upgrade.service b/etc/systemd/dnf-system-upgrade.service
new file mode 100644
index 0000000..2d23cfe
--- /dev/null
+++ b/etc/systemd/dnf-system-upgrade.service
@@ -0,0 +1,20 @@
+[Unit]
+Description=System Upgrade using DNF
+ConditionPathExists=/system-update
+Documentation=http://www.freedesktop.org/wiki/Software/systemd/SystemUpdates
+
+DefaultDependencies=no
+Requires=sysinit.target
+After=sysinit.target systemd-journald.socket system-update-pre.target
+Before=shutdown.target system-update.target
+OnFailure=dnf-system-upgrade-cleanup.service
+
+[Service]
+# We are done when the script exits, not before
+Type=oneshot
+# Upgrade output goes to journal and on-screen.
+StandardOutput=journal+console
+ExecStart=/usr/bin/dnf system-upgrade upgrade
+
+[Install]
+WantedBy=system-update.target
diff --git a/plugins/CMakeLists.txt b/plugins/CMakeLists.txt
index 59f148f..d004e5e 100644
--- a/plugins/CMakeLists.txt
+++ b/plugins/CMakeLists.txt
@@ -22,6 +22,7 @@ INSTALL
 (FILES repograph.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES repomanage.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES reposync.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES show_leaves.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
+INSTALL (FILES system_upgrade.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
INSTALL (FILES modulesync.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)
```

```
INSTALL (FILES versionlock.py DESTINATION ${PYTHON_INSTALL_DIR}/dnf-plugins)

diff --git a/plugins/system_upgrade.py b/plugins/system_upgrade.py
new file mode 100644
index 0000000..fee6762
--- /dev/null
+++ b/plugins/system_upgrade.py
@@ -0,0 +1,699 @@
+# -*- coding: utf-8 -*-
+#
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+#
+# Author(s): Will Woods <wwoods@redhat.com>
+
+"""system_upgrade.py - DNF plugin to handle major-version system upgrades."""
+
+from subprocess import call, Popen, check_output, CalledProcessError
+import json
+import os
+import os.path
+import re
+import sys
+import uuid
+
+from systemd import journal
+
+from dnfpluginscore import _, logger
+
+import dnf
+import dnf.cli
+from dnf.cli import CliError
+from dnf.i18n import ucd
+import dnf.transaction
+from dnf.transaction_sr import serialize_transaction, TransactionReplay
```

```
+
+import libdnf.conf
+
+
+# Translators:
 This string is only used in unit tests.
+_("the color of the sky")
+
+DOWNLOAD_FINISHED_ID = uuid.UUID('9348174c5cc74001a71ef26bd79d302e')
+REBOOT_REQUESTED_ID = uuid.UUID('fef1cc509d5047268b83a3a553f54b43')
+UPGRADE_STARTED_ID = uuid.UUID('3e0a5636d16b4ca4bbe5321d06c6aa62')
+UPGRADE_FINISHED_ID = uuid.UUID('8cec00a1566f4d3594f116450395f06c')
+
+ID_TO_IDENTIFY_BOOTS = UPGRADE_STARTED_ID
+
+PLYMOUTH = '/usr/bin/plymouth'
+
+RELEASEVER_MSG = _(
+    "Need a --releasever greater than the current system version.")
+DOWNLOAD_FINISHED_MSG = _(  # Translators: do not change "reboot" here
+    "Download complete! Use 'dnf {command} reboot' to start the upgrade.\n"
+    "To remove cached metadata and transaction use 'dnf {command} clean'")
+CANT_RESET_RELEASEVER = _(
+    "Sorry, you need to use 'download --releasever' instead of '--network'")
+
+STATE_VERSION = 2
+
+# --- Miscellaneous helper functions -----------------------------------------
+
+
+def reboot():
+    if os.getenv("DNF_SYSTEM_UPGRADE_NO_REBOOT",
 default=False):
+        logger.info(_("Reboot turned off, not rebooting."))
+    else:
+        Popen(["systemctl", "reboot"])
+
+
+def get_url_from_os_release():
+    key = "UPGRADE_GUIDE_URL="
+    for path in ["/etc/os-release", "/usr/lib/os-release"]:
+        try:
+            with open(path) as release_file:
+                for line in release_file:
+                    line = line.strip()
+                    if line.startswith(key):
+                        return line[len(key):].strip("")
+        except IOError:
```

```
+            continue
+    return None
+
+
+# DNF-FIXME: dnf.util.clear_dir() doesn't delete regular files :/
+def clear_dir(path, ignore=[]):
+    if not os.path.isdir(path):
+        return
+
+    for entry in os.listdir(path):
+        fullpath = os.path.join(path, entry)
+        if fullpath in ignore:
+            continue
+        try:
+            if os.path.isdir(fullpath):
+                dnf.util.rm_rf(fullpath)
+            else:
+
              os.unlink(fullpath)
+        except OSError:
+            pass
+
+
+def check_release_ver(conf, target=None):
+    if dnf.rpm.detect_releasever(conf.installroot) == conf.releasever:
+        raise CliError(RELEASEVER_MSG)
+    if target and target != conf.releasever:
+        # it's too late to set releasever here, so this can't work.
+        # (see https://bugzilla.redhat.com/show_bug.cgi?id=1212341)
+        raise CliError(CANT_RESET_RELEASEVER)
+
+
+def disable_blanking():
+    try:
+        tty = open('/dev/tty0', 'wb')
+        tty.write(b'\33[9;0]')
+    except Exception as e:
+        print(_("Screen blanking can't be disabled: %s") % e)
+
+# --- State object - for tracking upgrade state between runs ----------
+
+
+# DNF-INTEGRATION-NOTE: basically the same thing as dnf.persistor.JSONDB
+class State(object):
+    def __init__(self, statefile):
+        self.statefile = statefile
+        self._data = {}
+        self._read()
```

```
+
+    def _read(self):
+
     try:
+            with open(self.statefile) as fp:
+                self._data = json.load(fp)
+        except IOError:
+            self._data = {}
+        except ValueError:
+            self._data = {}
+            logger.warning(_("Failed loading state file: %s, continuing with "
+                             "empty state."), self.statefile)
+
+    def write(self):
+        dnf.util.ensure_dir(os.path.dirname(self.statefile))
+        with open(self.statefile, 'w') as outf:
+            json.dump(self._data, outf, indent=4, sort_keys=True)
+
+    def clear(self):
+        if os.path.exists(self.statefile):
+            os.unlink(self.statefile)
+        self._read()
+
+    def __enter__(self):
+        return self
+
+    def __exit__(self, exc_type, exc_value, traceback):
+        if exc_type is None:
+            self.write()
+
+    # helper function for creating properties. pylint: disable=protected-access
+    def _prop(option):  # pylint: disable=no-self-argument
+
  def setprop(self, value):
+            self._data[option] = value
+
+        def getprop(self):
+            return self._data.get(option)
+        return property(getprop, setprop)
+
+    #  !!! Increase STATE_VERSION for any changes in data structure like a new property or a new
+    #  data structure !!!
+    state_version = _prop("state_version")
+    download_status = _prop("download_status")
+    destdir = _prop("destdir")
+    target_releasever = _prop("target_releasever")
+    system_releasever = _prop("system_releasever")
+    gpgcheck = _prop("gpgcheck")
```

```
+    # list of repos with gpgcheck=True
+    gpgcheck_repos = _prop("gpgcheck_repos")
+    # list of repos with repo_gpgcheck=True
+    repo_gpgcheck_repos = _prop("repo_gpgcheck_repos")
+    upgrade_status = _prop("upgrade_status")
+    upgrade_command = _prop("upgrade_command")
+    distro_sync = _prop("distro_sync")
+    enable_disable_repos = _prop("enable_disable_repos")
+    module_platform_id = _prop("module_platform_id")
+
+#
 --- Plymouth output helpers ------------------------------------------------
+
+
+class PlymouthOutput(object):
+    """A plymouth output helper class.
+
+    Filters duplicate calls, and stops calling the plymouth binary if we
+    fail to contact it.
+    """
+
+    def __init__(self):
+        self.alive = True
+        self._last_args = dict()
+        self._last_msg = None
+
+    def _plymouth(self, cmd, *args):
+        dupe_cmd = (args == self._last_args.get(cmd))
+        if (self.alive and not dupe_cmd) or cmd == '--ping':
+            try:
+                self.alive = (call((PLYMOUTH, cmd) + args) == 0)
+            except OSError:
+                self.alive = False
+            self._last_args[cmd] = args
+        return self.alive
+
+    def ping(self):
+        return self._plymouth("--ping")
+
+    def message(self, msg):
+        if self._last_msg and self._last_msg != msg:
+            self._plymouth("hide-message", "--text", self._last_msg)
+        self._last_msg
 = msg
+        return self._plymouth("display-message", "--text", msg)
+
+    def set_mode(self):
+        mode = 'updates'
```

```
+        try:
+            s = check_output([PLYMOUTH, '--help'])
+            if re.search('--system-upgrade', ucd(s)):
+                mode = 'system-upgrade'
+        except (CalledProcessError, OSError):
+            pass
+        return self._plymouth("change-mode", "--" + mode)
+
+    def progress(self, percent):
+        return self._plymouth("system-update", "--progress", str(percent))
+
+
+# A single PlymouthOutput instance for us to use within this module
+Plymouth = PlymouthOutput()
+
+
+# A TransactionProgress class that updates plymouth for us.
+class PlymouthTransactionProgress(dnf.callback.TransactionProgress):
+
+    # pylint: disable=too-many-arguments
+    def progress(self, package, action, ti_done, ti_total, ts_done, ts_total):
+        self._update_plymouth(package, action, ts_done, ts_total)
+
+    def _update_plymouth(self, package,
 action, current, total):
+        # Prevents quick jumps of progressbar when pretrans scriptlets
+        # and TRANS_PREPARATION are reported as 1/1
+        if total == 1:
+            return
+        # Verification goes through all the packages again,
+        # which resets the "current" param value, this prevents
+        # resetting of the progress bar as well. (Rhbug:1809096)
+        if action != dnf.callback.PKG_VERIFY:
+            Plymouth.progress(int(90.0 * current / total))
+        else:
+            Plymouth.progress(90 + int(10.0 * current / total))
+
+        Plymouth.message(self._fmt_event(package, action, current, total))
+
+    def _fmt_event(self, package, action, current, total):
+        action = dnf.transaction.ACTIONS.get(action, action)
+        return "[%d/%d] %s %s..." % (current, total, action, package)
+
+# --- journal helpers ----------------------------------------------
+
+
+def find_boots(message_id):
+    """Find all boots with this message id.
```

```
+
+
   Returns the entries of all found boots.
+    """
+    j = journal.Reader()
+    j.add_match(MESSAGE_ID=message_id.hex,  # identify the message
+                _UID=0)                     # prevent spoofing of logs
+
+    oldboot = None
+    for entry in j:
+        boot = entry['_BOOT_ID']
+        if boot == oldboot:
+            continue
+        oldboot = boot
+        yield entry
+
+
+def list_logs():
+    print(_('The following boots appear to contain upgrade logs:'))
+    n = -1
+    for n, entry in enumerate(find_boots(ID_TO_IDENTIFY_BOOTS)):
+        print('{} / {.hex}: {:%Y-%m-%d %H:%M:%S} {}{}'.format(
+            n + 1,
+            entry['_BOOT_ID'],
+            entry['__REALTIME_TIMESTAMP'],
+            entry.get('SYSTEM_RELEASEVER', '??'),
+            entry.get('TARGET_RELEASEVER', '??')))
+    if n == -1:
+        print(_('-- no logs were found --'))
+
+
+def pick_boot(message_id, n):
+    boots = list(find_boots(message_id))
+    # Positive indices index
 all found boots starting with 1 and going forward,
+    # zero is the current boot, and -1, -2, -3 are previous going backwards.
+    # This is the same as journalctl.
+    try:
+        if n == 0:
+            raise IndexError
+        if n > 0:
+            n -= 1
+        return boots[n]['_BOOT_ID']
+    except IndexError:
+        raise CliError(_("Cannot find logs with this index."))
+
+
+def show_log(n):
```

```
+    boot_id = pick_boot(ID_TO_IDENTIFY_BOOTS, n)
+    process = Popen(['journalctl', '--boot', boot_id.hex])
+    process.wait()
+    rc = process.returncode
+    if rc == 1:
+        raise dnf.exceptions.Error(_("Unable to match systemd journal entry"))
+
+
+CMDS = ['download', 'clean', 'reboot', 'upgrade', 'log']
+
+# --- The actual Plugin and Command objects! ----------------------------------
+
+
+class SystemUpgradePlugin(dnf.Plugin):
+    name = 'system-upgrade'
+
+    def __init__(self, base, cli):
+        super(SystemUpgradePlugin, self).__init__(base, cli)
+        if
 cli:
+            cli.register_command(SystemUpgradeCommand)
+            cli.register_command(OfflineUpgradeCommand)
+            cli.register_command(OfflineDistrosyncCommand)
+
+
+class SystemUpgradeCommand(dnf.cli.Command):
+    aliases = ('system-upgrade', 'fedup',)
+    summary = _("Prepare system for upgrade to a new release")
+
+    DATADIR = 'var/lib/dnf/system-upgrade'
+
+    def __init__(self, cli):
+        super(SystemUpgradeCommand, self).__init__(cli)
+        self.datadir = os.path.join(cli.base.conf.installroot, self.DATADIR)
+        self.transaction_file = os.path.join(self.datadir, 'system-upgrade-transaction.json')
+        self.magic_symlink = os.path.join(cli.base.conf.installroot, 'system-update')
+
+        self.state = State(os.path.join(self.datadir, 'system-upgrade-state.json'))
+
+    @staticmethod
+    def set_argparser(parser):
+        parser.add_argument("--no-downgrade", dest='distro_sync',
+                            action='store_false',
+
                 help=_("keep installed packages if the new "
+                               "release's version is older"))
+        parser.add_argument('tid', nargs=1, choices=CMDS,
+                            metavar="[%s]" % "|".join(CMDS))
```

```
+        parser.add_argument('--number', type=int, help=_('which logs to show'))
+
+    def log_status(self, message, message_id):
+        """Log directly to the journal."""
+        journal.send(message,
+                     MESSAGE_ID=message_id,
+                     PRIORITY=journal.LOG_NOTICE,
+                     SYSTEM_RELEASEVER=self.state.system_releasever,
+                     TARGET_RELEASEVER=self.state.target_releasever,
+                     DNF_VERSION=dnf.const.VERSION)
+
+    def pre_configure(self):
+        self._call_sub("check")
+        self._call_sub("pre_configure")
+
+    def configure(self):
+        self._call_sub("configure")
+
+    def run(self):
+        self._call_sub("run")
+
+    def run_transaction(self):
+
         self._call_sub("transaction")
+
+    def run_resolved(self):
+        self._call_sub("resolved")
+
+    def _call_sub(self, name):
+        subfunc = getattr(self, name + '_' + self.opts.tid[0], None)
+        if callable(subfunc):
+            subfunc()
+
+    def _check_state_version(self, command):
+        if self.state.state_version != STATE_VERSION:
+            msg = _("Incompatible version of data. Rerun 'dnf {command} download [OPTIONS]'"
+                    "").format(command=command)
+            raise CliError(msg)
+
+    def _set_cachedir(self):
+        # set download directories from json state file
+        self.base.conf.cachedir = self.datadir
+        self.base.conf.destdir = self.state.destdir if self.state.destdir else None
+
+    def _get_forward_reverse_pkg_reason_pairs(self):
+        """
+        forward = {repoid:{pkg_nevra: {tsi.action: tsi.reason}}
+        reverse = {pkg_nevra: {tsi.action: tsi.reason}}
```

```
+        :return: forward, reverse
+
     """
+        backward_action = set(dnf.transaction.BACKWARD_ACTIONS +
[libdnf.transaction.TransactionItemAction_REINSTALLED])
+        forward_actions = set(dnf.transaction.FORWARD_ACTIONS)
+
+        forward = {}
+        reverse = {}
+        for tsi in self.cli.base.transaction:
+            if tsi.action in forward_actions:
+                pkg = tsi.pkg
+                forward.setdefault(pkg.repo.id, {}).setdefault(
+                    str(pkg), {})[tsi.action] = tsi.reason
+            elif tsi.action in backward_action:
+                reverse.setdefault(str(tsi.pkg), {})[tsi.action] = tsi.reason
+        return forward, reverse
+
+    # == pre_configure_*: set up action-specific demands ==========================
+    def pre_configure_download(self):
+        # only download subcommand accepts --destdir command line option
+        self.base.conf.cachedir = self.datadir
+        self.base.conf.destdir = self.opts.destdir if self.opts.destdir else None
+        if 'offline-distrosync'
 == self.opts.command and not self.opts.distro_sync:
+            raise CliError(
+                _("Command 'offline-distrosync' cannot be used with --no-downgrade option"))
+        elif 'offline-upgrade' == self.opts.command:
+            self.opts.distro_sync = False
+
+    def pre_configure_reboot(self):
+        self._set_cachedir()
+
+    def pre_configure_upgrade(self):
+        self._set_cachedir()
+        if self.state.enable_disable_repos:
+            self.opts.repos_ed = self.state.enable_disable_repos
+        self.base.conf.releasever = self.state.target_releasever
+
+    def pre_configure_clean(self):
+        self._set_cachedir()
+
+    # == configure_*: set up action-specific demands ==========================
+
+    def configure_download(self):
+        if 'system-upgrade' == self.opts.command or 'fedup' == self.opts.command:
+            help_url = get_url_from_os_release()
+            if help_url:
```

```
+            msg = _('Additional information for
 System Upgrade: {}')
+            logger.info(msg.format(ucd(help_url)))
+        if self.base._promptWanted():
+            msg = _('Before you continue ensure that your system is fully upgraded by running '
+                '"dnf --refresh upgrade". Do you want to continue')
+            if self.base.conf.assumeno or not self.base.output.userconfirm(
+                msg='{} [y/N]: '.format(msg), defaultyes_msg='{} [Y/n]: '.format(msg)):
+                logger.error(_("Operation aborted."))
+                sys.exit(1)
+        check_release_ver(self.base.conf, target=self.opts.releasever)
+    self.cli.demands.root_user = True
+    self.cli.demands.resolving = True
+    self.cli.demands.available_repos = True
+    self.cli.demands.sack_activation = True
+    self.cli.demands.freshest_metadata = True
+    # We want to do the depsolve / download / transaction-test, but *not*
+    # run the actual RPM transaction
 to install the downloaded packages.
+    # Setting the "test" flag makes the RPM transaction a test transaction,
+    # so nothing actually gets installed.
+    # (It also means that we run two test transactions in a row, which is
+    # kind of silly, but that's something for DNF to fix...)
+    self.base.conf.tsflags += ["test"]
+
+  def configure_reboot(self):
+    # FUTURE: add a --debug-shell option to enable debug shell:
+    # systemctl add-wants system-update.target debug-shell.service
+    self.cli.demands.root_user = True
+
+  def configure_upgrade(self):
+    # same as the download, but offline and non-interactive. so...
+    self.cli.demands.root_user = True
+    self.cli.demands.resolving = True
+    self.cli.demands.available_repos = True
+    self.cli.demands.sack_activation = True
+    # use the saved value for --allowerasing, etc.
+    self.opts.distro_sync = self.state.distro_sync
+    if self.state.gpgcheck
 is not None:
+        self.base.conf.gpgcheck = self.state.gpgcheck
+    if self.state.gpgcheck_repos is not None:
+        for repo in self.base.repos.values():
+            repo.gpgcheck = repo.id in self.state.gpgcheck_repos
+    if self.state.repo_gpgcheck_repos is not None:
+        for repo in self.base.repos.values():
+            repo.repo_gpgcheck = repo.id in self.state.repo_gpgcheck_repos
+    self.base.conf.module_platform_id = self.state.module_platform_id
```

```
+        # don't try to get new metadata, 'cuz we're offline
+        self.cli.demands.cacheonly = True
+        # and don't ask any questions (we confirmed all this beforehand)
+        self.base.conf.assumeyes = True
+        self.cli.demands.transaction_display = PlymouthTransactionProgress()
+        # upgrade operation already removes all element that must be removed. Additional removal
+        # could trigger unwanted changes in transaction.
+        self.base.conf.clean_requirements_on_remove
 = False
+        self.base.conf.install_weak_deps = False
+
+    def configure_clean(self):
+        self.cli.demands.root_user = True
+
+    def configure_log(self):
+        pass
+
+    # == check_*: do any action-specific checks ==================================
+
+    def check_reboot(self):
+        if not self.state.download_status == 'complete':
+            raise CliError(_("system is not ready for upgrade"))
+        self._check_state_version(self.opts.command)
+        if self.state.upgrade_command != self.opts.command:
+            msg = _("the transaction was not prepared for '{command}'. "
+                    "Rerun 'dnf {command} download [OPTIONS]'").format(command=self.opts.command)
+            raise CliError(msg)
+        if os.path.lexists(self.magic_symlink):
+            raise CliError(_("upgrade is already scheduled"))
+        dnf.util.ensure_dir(self.datadir)
+        # FUTURE: checkRPMDBStatus(self.state.download_transaction_id)
+
+    def
 check_upgrade(self):
+        if not os.path.lexists(self.magic_symlink):
+            logger.info(_("trigger file does not exist. exiting quietly."))
+            raise SystemExit(0)
+        if os.readlink(self.magic_symlink) != self.datadir:
+            logger.info(_("another upgrade tool is running. exiting quietly."))
+            raise SystemExit(0)
+        # Delete symlink ASAP to avoid reboot loops
+        dnf.yum.misc.unlink_f(self.magic_symlink)
+        command = self.state.upgrade_command
+        if not command:
+            command = self.opts.command
+        self._check_state_version(command)
+        if not self.state.upgrade_status == 'ready':
+            msg = _("use 'dnf {command} reboot' to begin the upgrade").format(command=command)
```

```
+            raise CliError(msg)
+
+    # == run_*: run the action/prep the transaction ===========================
+
+    def run_prepare(self):
+        # make the magic symlink
+        os.symlink(self.datadir, self.magic_symlink)
+
         # set upgrade_status so that the upgrade can run
+        with self.state as state:
+            state.upgrade_status = 'ready'
+
+    def run_reboot(self):
+        self.run_prepare()
+
+        if not self.opts.tid[0] == "reboot":
+            return
+
+        self.log_status(_("Rebooting to perform upgrade."),
+                        REBOOT_REQUESTED_ID)
+        reboot()
+
+    def run_download(self):
+        # Mark everything in the world for upgrade/sync
+        if self.opts.distro_sync:
+            self.base.distro_sync()
+        else:
+            self.base.upgrade_all()
+
+        if self.opts.command not in ['offline-upgrade', 'offline-distrosync']:
+            # Mark all installed groups and environments for upgrade
+            self.base.read_comps()
+            installed_groups = [g.id for g in self.base.comps.groups if self.base.history.group.get(g.id)]
+            if installed_groups:
+                self.base.env_group_upgrade(installed_groups)
+
           installed_environments = [g.id for g in self.base.comps.environments if self.base.history.env.get(g.id)]
+            if installed_environments:
+                self.base.env_group_upgrade(installed_environments)
+
+        with self.state as state:
+            state.download_status = 'downloading'
+            state.target_releasever = self.base.conf.releasever
+            state.destdir = self.base.conf.destdir
+
+    def run_upgrade(self):
+        # change the upgrade status (so we can detect crashed upgrades later)
+        command = ''
```

```
+        with self.state as state:
+            state.upgrade_status = 'incomplete'
+            command = state.upgrade_command
+        if command == 'offline-upgrade':
+            msg = _("Starting offline upgrade. This will take a while.")
+        elif command == 'offline-distrosync':
+            msg = _("Starting offline distrosync. This will take a while.")
+        else:
+            msg = _("Starting system upgrade. This will
 take a while.")
+
+        self.log_status(msg, UPGRADE_STARTED_ID)
+
+        # reset the splash mode and let the user know we're running
+        Plymouth.set_mode()
+        Plymouth.progress(0)
+        Plymouth.message(msg)
+
+        # disable screen blanking
+        disable_blanking()
+
+        self.replay = TransactionReplay(self.base, self.transaction_file)
+        self.replay.run()
+
+    def run_clean(self):
+        logger.info(_("Cleaning up downloaded data..."))
+        # Don't delete persistor, it contains paths for downloaded packages
+        # that are used by dnf during finalizing base to clean them up
+        clear_dir(self.base.conf.cachedir,
+                  [dnf.persistor.TempfilePersistor(self.base.conf.cachedir).db_path])
+        with self.state as state:
+            state.download_status = None
+            state.state_version = None
+            state.upgrade_status = None
+            state.upgrade_command = None
+            state.destdir = None
+
+
     def run_log(self):
+        if self.opts.number:
+            show_log(self.opts.number)
+        else:
+            list_logs()
+
+    # == resolved_*: do staff after succesful resolvement ======================
+
+    def resolved_upgrade(self):
+        """Adjust transaction reasons according to stored values"""
```

```
+        self.replay.post_transaction()
+
+    # == transaction_*: do stuff after a successful transaction ===============
+
+    def transaction_download(self):
+        transaction = self.base.history.get_current()
+
+        if not transaction.packages():
+            logger.info(_("The system-upgrade transaction is empty, your system is already up-to-date."))
+            return
+
+        data = serialize_transaction(transaction)
+        try:
+            with open(self.transaction_file, "w") as f:
+                json.dump(data, f, indent=4, sort_keys=True)
+                f.write("\n")
+
+            print(_("Transaction saved to {}.").format(self.transaction_file))
+
+
         except OSError as e:
+            raise dnf.cli.CliError(_('Error storing transaction: {}').format(str(e)))
+
+        # Okay! Write out the state so the upgrade can use it.
+        system_ver = dnf.rpm.detect_releasever(self.base.conf.installroot)
+        with self.state as state:
+            state.download_status = 'complete'
+            state.state_version = STATE_VERSION
+            state.distro_sync = self.opts.distro_sync
+            state.gpgcheck = self.base.conf.gpgcheck
+            state.gpgcheck_repos = [
+                repo.id for repo in self.base.repos.values() if repo.gpgcheck]
+            state.repo_gpgcheck_repos = [
+                repo.id for repo in self.base.repos.values() if repo.repo_gpgcheck]
+            state.system_releasever = system_ver
+            state.target_releasever = self.base.conf.releasever
+            state.module_platform_id = self.base.conf.module_platform_id
+            state.enable_disable_repos = self.opts.repos_ed
+
            state.destdir = self.base.conf.destdir
+            state.upgrade_command = self.opts.command
+
+        msg = DOWNLOAD_FINISHED_MSG.format(command=self.opts.command)
+        logger.info(msg)
+        self.log_status(_("Download finished."), DOWNLOAD_FINISHED_ID)
+
+    def transaction_upgrade(self):
+        Plymouth.message(_("Upgrade complete! Cleaning up and rebooting..."))
```

```
+       self.log_status(_("Upgrade complete! Cleaning up and rebooting..."),
+                       UPGRADE_FINISHED_ID)
+       self.run_clean()
+       if self.opts.tid[0] == "upgrade":
+           reboot()
+
+
+class OfflineUpgradeCommand(SystemUpgradeCommand):
+    aliases = ('offline-upgrade',)
+    summary = _("Prepare offline upgrade of the system")
+
+
+class OfflineDistrosyncCommand(SystemUpgradeCommand):
+    aliases = ('offline-distrosync',)
+    summary = _("Prepare offline distrosync of the system")
diff --git a/tests/test_system_upgrade.py b/tests/test_system_upgrade.py
new
 file mode 100644
index 0000000..6ef4c21
--- /dev/null
+++ b/tests/test_system_upgrade.py
@@ -0,0 +1,502 @@
+# test_system_upgrade.py - unit tests for system-upgrade plugin
+
+import system_upgrade
+
+from system_upgrade import PLYMOUTH, CliError
+
+import os
+import tempfile
+import shutil
+import gettext
+
+from dnf.callback import (PKG_CLEANUP, PKG_DOWNGRADE, PKG_INSTALL,
+                          PKG_OBSOLETE, PKG_REINSTALL, PKG_REMOVE, PKG_UPGRADE,
+                          PKG_VERIFY, TRANS_POST)
+
+import unittest
+
+from tests.support import mock
+patch = mock.patch
+
+
+@patch('system_upgrade.call', return_value=0)
+class PlymouthTestCase(unittest.TestCase):
+    def setUp(self):
+        self.ply = system_upgrade.PlymouthOutput()
+        self.msg = "Hello, plymouth."
```

```
+        self.msg_args = (PLYMOUTH, "display-message", "--text", self.msg)
+
+    def test_ping(self, call):
+        self.ply.ping()
+        call.assert_called_once_with((PLYMOUTH, "--ping"))
+        self.assertTrue(self.ply.alive)
+
+
    def test_ping_when_dead(self, call):
+        call.return_value = 1
+        self.ply.ping()
+        self.assertFalse(self.ply.alive)
+        call.return_value = 0
+        self.ply.ping()
+        self.assertEqual(call.call_count, 2)
+        self.assertTrue(self.ply.alive)
+
+    def test_message(self, call):
+        self.ply.message(self.msg)
+        call.assert_called_once_with(self.msg_args)
+
+    def test_hide_message(self, call):
+        messages = ("first", "middle", "BONUS", "last")
+        for m in messages:
+            self.ply.message(m)
+
+        def hidem(m):
+            return mock.call((PLYMOUTH, "hide-message", "--text", m))
+
+        def dispm(m):
+            return mock.call((PLYMOUTH, "display-message", "--text", m))
+        m1, m2, m3, m4 = messages
+        call.assert_has_calls([
+            dispm(m1),
+            hidem(m1), dispm(m2),
+            hidem(m2), dispm(m3),
+            hidem(m3), dispm(m4),
+        ])
+
+
    def test_message_dupe(self, call):
+        self.ply.message(self.msg)
+        self.ply.message(self.msg)
+        call.assert_called_once_with(self.msg_args)
+
+    def test_message_dead(self, call):
+        call.return_value = 1
+        self.ply.message(self.msg)
```

```
+        self.assertFalse(self.ply.alive)
+        self.ply.message("not even gonna bother")
+        call.assert_called_once_with(self.msg_args)
+
+    def test_progress(self, call):
+        self.ply.progress(27)
+        call.assert_called_once_with(
+            (PLYMOUTH, "system-update", "--progress", str(27)))
+
+    @patch('system_upgrade.check_output',
+           return_value="this plymouth does support --system-upgrade mode")
+    def test_mode(self, check_output, call):
+        self.ply.set_mode()
+        call.assert_called_once_with((PLYMOUTH, "change-mode", "--system-upgrade"))
+
+    @patch('system_upgrade.check_output',
+           return_value="this plymouth doesn't support system-upgrade mode")
+
    def test_mode_no_system_upgrade_plymouth(self, check_output, call):
+        self.ply.set_mode()
+        call.assert_called_once_with((PLYMOUTH, "change-mode", "--updates"))
+
+    def test_mode_no_plymouth(self, call):
+        call.side_effect = OSError(2, 'No such file or directory')
+        self.ply.set_mode()
+        self.assertFalse(self.ply.alive)
+
+
+@patch('system_upgrade.call', return_value=0)
+class PlymouthTransactionProgressTestCase(unittest.TestCase):
+    actions = (PKG_CLEANUP, PKG_DOWNGRADE, PKG_INSTALL, PKG_OBSOLETE,
+               PKG_REINSTALL, PKG_REMOVE, PKG_UPGRADE, PKG_VERIFY,
+               TRANS_POST)
+
+    # pylint: disable=protected-access
+    def setUp(self):
+        system_upgrade.Plymouth = system_upgrade.PlymouthOutput()
+        self.display = system_upgrade.PlymouthTransactionProgress()
+        self.pkg = "testpackage"
+
+    def test_display(self, call):
+        for action in self.actions:
+            self.display.progress(self.pkg,
 action, 0, 100, 1, 1000)
+            msg = self.display._fmt_event(self.pkg, action, 1, 1000)
+            # updating plymouth display means two plymouth calls
+            call.assert_has_calls([
+                mock.call((PLYMOUTH, "system-update", "--progress", "0")),
```

```
+                mock.call((PLYMOUTH, "display-message", "--text", msg))
+            ], any_order=True)
+
+    def test_filter_calls(self, call):
+        action = PKG_INSTALL
+        # first display update -> set percentage and text
+        self.display.progress(self.pkg, action, 0, 100, 1, 1000)
+        msg1 = self.display._fmt_event(self.pkg, action, 1, 1000)
+        call.assert_has_calls([
+            mock.call((PLYMOUTH, "system-update", "--progress", "0")),
+            mock.call((PLYMOUTH, "display-message", "--text", msg1)),
+        ])
+
+        # event progress on the same transaction item.
+        # no new calls to plymouth because the percentage and text don't change
+        for te_cur in range(1,
 100):
+            self.display.progress(self.pkg, action, te_cur, 100, 1, 1000)
+        call.assert_has_calls([
+            mock.call((PLYMOUTH, "system-update", "--progress", "0")),
+            mock.call((PLYMOUTH, "display-message", "--text", msg1)),
+        ])
+
+        # new item: new message ("[2/1000] ..."), but percentage still 0..
+        self.display.progress(self.pkg, action, 0, 100, 2, 1000)
+        # old message hidden, new message displayed. no new percentage.
+        msg2 = self.display._fmt_event(self.pkg, action, 2, 1000)
+        call.assert_has_calls([
+            mock.call((PLYMOUTH, "system-update", "--progress", "0")),
+            mock.call((PLYMOUTH, "display-message", "--text", msg1)),
+            mock.call((PLYMOUTH, "hide-message", "--text", msg1)),
+            mock.call((PLYMOUTH, "display-message", "--text", msg2)),
+        ])
+
+
+TESTLANG = "zh_CN"
+TESTLANG_MO = "po/%s.mo" % TESTLANG
+
+
+@unittest.skipUnless(os.path.exists(TESTLANG_MO), "make
 %s first" %
+                     TESTLANG_MO)
+# @unittest.skip("There is no translation yet to system-upgrade")
+class I18NTestCaseBase(unittest.TestCase):
+    @classmethod
+    @unittest.skip("There is no translation yet to system-upgrade")
+    def setUpClass(cls):
+        cls.localedir = tempfile.mkdtemp(prefix='system_upgrade_test_i18n-')
```

```
+        cls.msgdir = os.path.join(cls.localedir, TESTLANG + "/LC_MESSAGES")
+        cls.msgfile = "dnf-plugins-extras" + ".mo"
+        os.makedirs(cls.msgdir)
+        shutil.copy2(TESTLANG_MO, os.path.join(cls.msgdir, cls.msgfile))
+
+    @classmethod
+    def tearDownClass(cls):
+        shutil.rmtree(cls.localedir)
+
+    def setUp(self):
+        self.t = gettext.translation("dnf-plugins-extras", self.localedir,
+                                     languages=[TESTLANG], fallback=True)
+        self.gettext = self.t.gettext
+
+
+class I18NTestCase(I18NTestCaseBase):
+    @unittest.skip("There is no translation yet to system-upgrade")
+
    def test_selftest(self):
+        self.assertIn(self.msgfile, os.listdir(self.msgdir))
+        self.assertIn(TESTLANG, os.listdir(self.localedir))
+        t = gettext.translation("dnf-plugins-extras", self.localedir,
+                                languages=[TESTLANG], fallback=False)
+        info = t.info()
+        self.assertIn("language", info)
+        self.assertEqual(info["language"], TESTLANG.replace("_", "-"))
+
+    @unittest.skip("There is no translation yet to system-upgrade")
+    def test_fallback(self):
+        msg = "THIS STRING DOES NOT EXIST"
+        trans_msg = self.gettext(msg)
+        self.assertEqual(msg, trans_msg)
+
+    @unittest.skip("There is no translation yet to system-upgrade")
+    def test_translation(self):
+        msg = "the color of the sky"
+        trans_msg = self.gettext(msg)
+        self.assertNotEqual(msg, trans_msg)
+
+
+class StateTestCase(unittest.TestCase):
+    @classmethod
+    def setUpClass(cls):
+        cls.statedir =
 tempfile.mkdtemp(prefix="system_upgrade_test_state-")
+        cls.StateClass = system_upgrade.State
+
+    def setUp(self):
```

```
+        self.state = self.StateClass(os.path.join(self.statedir, "state"))
+
+    def test_bool_value(self):
+        with self.state:
+            self.state.distro_sync = True
+        del self.state
+        self.state = self.StateClass(os.path.join(self.statedir, "state"))
+        self.assertIs(self.state.distro_sync, True)
+
+    @classmethod
+    def tearDownClass(cls):
+        shutil.rmtree(cls.statedir)
+
+
+class UtilTestCase(unittest.TestCase):
+    def setUp(self):
+        self.tmpdir = tempfile.mkdtemp(prefix='system_upgrade_test_util-')
+        self.dirs = ["dir1", "dir2"]
+        self.files = ["file1", "dir2/file2"]
+        for d in self.dirs:
+            os.makedirs(os.path.join(self.tmpdir, d))
+        for f in self.files:
+            with open(os.path.join(self.tmpdir, f), 'wt') as fobj:
+                fobj.write("hi there\n")
+
+
 def test_self_test(self):
+        for d in self.dirs:
+            self.assertTrue(os.path.isdir(os.path.join(self.tmpdir, d)))
+        for f in self.files:
+            self.assertTrue(os.path.exists(os.path.join(self.tmpdir, f)))
+
+    def test_clear_dir(self):
+        self.assertTrue(os.path.isdir(self.tmpdir))
+        system_upgrade.clear_dir(self.tmpdir)
+        self.assertTrue(os.path.isdir(self.tmpdir))
+        self.assertEqual(os.listdir(self.tmpdir), [])
+
+    def tearDown(self):
+        shutil.rmtree(self.tmpdir)
+
+
+class CommandTestCaseBase(unittest.TestCase):
+    def setUp(self):
+        self.datadir = tempfile.mkdtemp(prefix="system_upgrade_test_datadir-")
+        self.installroot = tempfile.TemporaryDirectory(prefix="system_upgrade_test_installroot-")
+        system_upgrade.SystemUpgradeCommand.DATADIR = self.datadir
+        self.cli = mock.MagicMock()
```

```
+        # the installroot is not strictly necessary for the test, but
+        # releasever detection is
 accessing host system files without it, and
+        # this fails on permissions in COPR srpm builds (e.g. from rpm-gitoverlay)
+        self.cli.base.conf.installroot = self.installroot.name
+        self.command = system_upgrade.SystemUpgradeCommand(cli=self.cli)
+        self.command.base.conf.cachedir = os.path.join(self.datadir, "cache")
+        self.command.base.conf.destdir = None
+
+    def tearDown(self):
+        shutil.rmtree(self.datadir)
+        self.installroot.cleanup()
+
+
+class CommandTestCase(CommandTestCaseBase):
+    # self-tests for the command test cases
+    def test_state(self):
+        # initial state: no status
+        self.assertIsNone(self.command.state.download_status)
+        self.assertIsNone(self.command.state.upgrade_status)
+
+
+class CleanCommandTestCase(CommandTestCaseBase):
+    def test_pre_configure_clean(self):
+        with self.command.state as state:
+            state.destdir = "/grape/wine"
+        self.command.pre_configure_clean()
+
       self.assertEqual(self.command.base.conf.destdir, "/grape/wine")
+
+    def test_configure_clean(self):
+        self.cli.demands.root_user = None
+        self.command.configure_clean()
+        self.assertTrue(self.cli.demands.root_user)
+
+    def test_run_clean(self):
+        with self.command.state as state:
+            state.download_status = "complete"
+            state.upgrade_status = "ready"
+        # make sure the datadir and state info is set up OK
+        self.assertEqual(self.command.state.download_status, "complete")
+        self.assertEqual(self.command.state.upgrade_status, "ready")
+        # run cleanup
+        self.command.run_clean()
+        # state is cleared
+        self.assertIsNone(self.command.state.download_status)
+        self.assertIsNone(self.command.state.upgrade_status)
+
```

```
+
+class RebootCheckCommandTestCase(CommandTestCaseBase):
+    def setUp(self):
+        super(RebootCheckCommandTestCase, self).setUp()
+        self.magic_symlink =
 self.datadir + '/symlink'
+        self.command.magic_symlink = self.magic_symlink
+
+    def test_pre_configure_reboot(self):
+        with self.command.state as state:
+            state.destdir = "/grape/wine"
+        self.command.pre_configure_reboot()
+        self.assertEqual(self.command.base.conf.destdir, "/grape/wine")
+
+    def test_configure_reboot(self):
+        self.cli.demands.root_user = None
+        self.command.configure_reboot()
+        self.assertTrue(self.cli.demands.root_user)
+
+    def check_reboot(self, status='complete', lexists=False, command='system-upgrade',
+                     state_command='system-upgrade'):
+        with patch('system_upgrade.os.path.lexists') as lexists_func:
+            self.command.state.state_version = 2
+            self.command.state.download_status = status
+            self.command.opts = mock.MagicMock()
+            self.command.opts.command = command
+            self.command.state.upgrade_command = state_command
+
       lexists_func.return_value = lexists
+            self.command.check_reboot()
+
+    def test_check_reboot_ok(self):
+        self.check_reboot(status='complete', lexists=False)
+
+    def test_check_reboot_different_command(self):
+        with self.assertRaises(CliError):
+            self.check_reboot(status='complete', lexists=False, command='system-upgrade',
+                              state_command='offline-upgrade')
+
+    def test_check_reboot_no_download(self):
+        with self.assertRaises(CliError):
+            self.check_reboot(status=None, lexists=False)
+
+    def test_check_reboot_link_exists(self):
+        with self.assertRaises(CliError):
+            self.check_reboot(status='complete', lexists=True)
+
+    def test_run_prepare(self):
```

```
+        self.command.run_prepare()
+        self.assertEqual(os.readlink(self.magic_symlink), self.datadir)
+        self.assertEqual(self.command.state.upgrade_status, 'ready')
+
+    @patch('system_upgrade.SystemUpgradeCommand.run_prepare')
+
    @patch('system_upgrade.SystemUpgradeCommand.log_status')
+    @patch('system_upgrade.reboot')
+    def test_run_reboot(self, reboot, log_status, run_prepare):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.tid = ["reboot"]
+        self.command.run_reboot()
+        run_prepare.assert_called_once_with()
+        self.assertEqual(system_upgrade.REBOOT_REQUESTED_ID,
+                         log_status.call_args[0][1])
+        self.assertTrue(reboot.called)
+
+    @patch('system_upgrade.SystemUpgradeCommand.run_prepare')
+    @patch('system_upgrade.SystemUpgradeCommand.log_status')
+    @patch('system_upgrade.reboot')
+    def test_reboot_prepare_only(self, reboot, log_status, run_prepare):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.tid = [None]
+        self.command.run_reboot()
+        run_prepare.assert_called_once_with()
+        self.assertFalse(log_status.called)
+        self.assertFalse(reboot.called)
+
+
+class
 DownloadCommandTestCase(CommandTestCase):
+    def test_pre_configure_download_default(self):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.destdir = None
+        self.command.base.conf.destdir = None
+        self.command.pre_configure_download()
+        self.assertEqual(self.command.base.conf.cachedir, self.datadir)
+
+    def test_pre_configure_download_destdir(self):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.destdir = self.datadir
+        self.command.pre_configure_download()
+        self.assertEqual(self.command.base.conf.destdir, self.datadir)
+
+    def test_configure_download(self):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.tid = "download"
+        self.command.configure()
```

```
+        self.assertTrue(self.cli.demands.root_user)
+        self.assertTrue(self.cli.demands.resolving)
+        self.assertTrue(self.cli.demands.sack_activation)
+        self.assertTrue(self.cli.demands.available_repos)
+
+
    def test_transaction_download(self):
+        pkg = mock.MagicMock()
+        repo = mock.MagicMock()
+        repo.id = 'test'
+        pkg.name = "kernel"
+        pkg.repo = repo
+        self.cli.base.transaction.install_set = [pkg]
+        self.command.opts = mock.MagicMock()
+        self.command.opts.distro_sync = True
+        self.command.opts.command = "system_upgrade"
+        self.command.opts.repos_ed = []
+        self.cli.demands.allow_erasing = "allow_erasing"
+        self.command.base.conf.best = True
+        self.command.base.conf.releasever = "35"
+        self.command.base.conf.gpgcheck = True
+        self.command.opts.destdir = self.datadir
+        self.command.base.conf.install_weak_deps = True
+        self.command.base.conf.module_platform_id = ''
+        self.command.pre_configure_download()
+        self.command.transaction_download()
+        with system_upgrade.State(self.command.state.statefile) as state:
+            self.assertEqual(state.state_version,
 system_upgrade.STATE_VERSION)
+            self.assertEqual(state.download_status, "complete")
+            self.assertEqual(state.distro_sync, True)
+            self.assertEqual(state.destdir, self.datadir)
+            self.assertEqual(state.upgrade_command, "system_upgrade")
+
+    def test_transaction_download_offline_upgrade(self):
+        pkg = mock.MagicMock()
+        repo = mock.MagicMock()
+        repo.id = 'test'
+        pkg.name = "kernel"
+        pkg.repo = repo
+        self.cli.base.transaction.install_set = [pkg]
+        self.command.opts = mock.MagicMock()
+        self.command.opts.distro_sync = True
+        self.command.opts.command = "offline-upgrade"
+        self.command.opts.repos_ed = []
+        self.cli.demands.allow_erasing = "allow_erasing"
+        self.command.base.conf.best = True
+        self.command.base.conf.releasever = "35"
```

```
+        self.command.base.conf.gpgcheck = True
+        self.command.opts.destdir =
 self.datadir
+        self.command.base.conf.install_weak_deps = True
+        self.command.base.conf.module_platform_id = ''
+        self.command.pre_configure_download()
+        self.command.transaction_download()
+        with system_upgrade.State(self.command.state.statefile) as state:
+            self.assertEqual(state.download_status, "complete")
+            self.assertEqual(state.distro_sync, False)
+            self.assertEqual(state.destdir, self.datadir)
+            self.assertEqual(state.upgrade_command, "offline-upgrade")
+
+
+class UpgradeCommandTestCase(CommandTestCase):
+    def test_pre_configure_upgrade(self):
+        with self.command.state as state:
+            state.destdir = "/grape/wine"
+            state.target_releasever = "35"
+        self.command.pre_configure_upgrade()
+        self.assertEqual(self.command.base.conf.destdir, "/grape/wine")
+        self.assertEqual(self.command.base.conf.releasever, "35")
+
+    def test_configure_upgrade(self):
+
       # write state like download would have
+        with self.command.state as state:
+            state.download_status = "complete"
+            state.distro_sync = True
+            state.allow_erasing = True
+            state.best = True
+        # okay, now configure upgrade
+        self.command.opts = mock.MagicMock()
+        self.command.opts.tid = "upgrade"
+        self.command.configure()
+        # did we reset the depsolving flags?
+        self.assertTrue(self.command.opts.distro_sync)
+        self.assertTrue(self.cli.demands.allow_erasing)
+        self.assertTrue(self.command.base.conf.best)
+        # are we on autopilot?
+        self.assertTrue(self.command.base.conf.assumeyes)
+        self.assertTrue(self.cli.demands.cacheonly)
+
+
+class LogCommandTestCase(CommandTestCase):
+    def test_configure_log(self):
+        self.command.opts = mock.MagicMock()
+        self.command.opts.tid = "log"
```

```
+        self.command.configure()
+
+    def test_run_log_list(self):
+
         self.command.opts = mock.MagicMock()
+        self.command.opts.number = None
+        with patch('system_upgrade.list_logs') as list_logs:
+            self.command.run_log()
+        list_logs.assert_called_once_with()
+
+    def test_run_log_prev(self):
+        with patch('system_upgrade.show_log') as show_log:
+            self.command.opts = mock.MagicMock()
+            self.command.opts.number = -2
+            self.command.run_log()
+        show_log.assert_called_once_with(-2)
--
2.37.3
```

Found in path(s):
* /dnf-plugins-core-imports-r8-dnf-plugins-core-4-0-21-19-el8-8-zip/dnf-plugins-core-imports-r8-dnf-plugins-core-4.0.21-19.el8_8/SOURCES/0025-Move-system-upgrade-plugin-to-core-RhBug-2054235.patch

1.755 dnf 4.7.0-16.el8_8

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1.756 libuser 0.62-25.el8

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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.769 openjdk-jre 17.0.7.0.7-3.el8

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Ext headers GL/glext.h Khronos
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GL/wglext.h Khronos
KHR/khrplatform.h Khronos

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Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
                  GL/glxext.h   Khronos
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GL/wglext.h Khronos
KHR/khrplatform.h Khronos

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---
include/GL/gl.h :

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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1.787 spring-web-mvc 5.3.28

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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
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 /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
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```
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the
 model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
```

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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
*
 /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
*
 /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/LocaleContextResolver.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfigurer.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java
*

/spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementBodyTag.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
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/spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/DispatcherServlet.java
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 /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/EncodedResourceResolver.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
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jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java

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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/function/ServerResponse.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java
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/spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/condition/AbstractRequestCondition.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/function/RouterFunction.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/function/RenderingResponse.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/script/RenderingContext.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/LabelTag.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/FormTag.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/resource/GzipResourceResolver.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/InputTag.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /spring-webmvc-5-3-28-sources-
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jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/config/TilesConfigurerBeanDefinitionParser.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/tiles3/TilesView.java
* /spring-webmvc-5-3-28-sources-
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* /spring-webmvc-5-3-28-sources-
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* /spring-webmvc-5-3-28-sources-
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/InternalResourceView.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/support/JspAwareRequestContext.java

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/spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java
* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
* /spring-webmvc-5-3-28-sources-
jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
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jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
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jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.

```
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
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* /spring-webmvc-5-3-28-sources-jar/org/springframework/web/servlet/view/XmlViewResolver.java
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1.788 spring-web 5.3.28

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* /spring-web-5-3-28-sources-jar/org/springframework/web/util/pattern/PathPatternParser.java
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* /spring-web-5-3-28-sources-
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* /spring-web-5-3-28-sources-jar/org/springframework/remoting/jaxws/SimpleJaxWsServiceExporter.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/json/AbstractJackson2Decoder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/MissingRequestHeaderException.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/filter/OncePerRequestFilter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/json/KotlinSerializationJsonDecoder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/EncoderHttpMessageWriter.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/ClientHttpResponseDecorator.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/pattern/SingleCharWildcardedPathElement.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/json/Jackson2SmileEncoder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/AbstractListenerWriteProcessor.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/NettyHeadersAdapter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/MultipartFile.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/handler/ResponseStatusExceptionHandler.java
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Found in path(s):
* /spring-web-5-3-28-sources-jar/org/springframework/web/HttpRequestHandler.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/ClientHttpRequestFactory.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/DeleteMapping.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/GetMapping.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/filter/CompositeFilter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/annotation/SessionScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/WebAppRootListener.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/WebRequestInterceptor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/session/WebSessionManager.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/WebHandler.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/cors/CorsConfigurationSource.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.java
* /spring-web-5-3-28-sources-jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/RequestAttribute.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/MultipartRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/PatchMapping.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/annotation/ApplicationScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/SessionAttribute.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/web/context/annotation/RequestScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/WebExceptionHandler.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/ReactiveHttpInputMessage.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/WebApplicationContext.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/FacesWebRequest.java

* /spring-web-5-3-28-sources-jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/PutMapping.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/PostMapping.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
  * Return the web session for the current request. Always guaranteed to
  * return an instance either matching to the session id requested by the
  * client, or with a new session id either because the client did not
  * specify one or because the underlying session had expired. Use of this
  * method
 does not automatically create a session. See {@link WebSession}
  * for more details.
  */

Found in path(s):
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/ServerWebExchange.java
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Found in path(s):
* /spring-web-5-3-28-sources-jar/org/springframework/http/MediaTypeEditor.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/ServletRequestBindingException.java
* /spring-web-5-3-28-sources-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/client/ResourceAccessException.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /spring-web-5-3-28-sources-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/ValueConstants.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
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Found in path(s):
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/ServletContextResourceLoader.java
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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 <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# 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/atomsvc+xml    atomsvc
# 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    cdmiq
# application/cdni
# application/cea
# application/cea-2018+xml
# application/cellml+xml
# application/cfw
# application/cms
# application/cnrp+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/efi
```

```
# 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/geo+json
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/lgr+xml
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/smpte336m
# 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.sms+xml
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.3lightssoftware.imagescal
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.amazon.mobi8-ebook
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.chess-pgn
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.comicbook+zip
# application/vnd.commerce-battelle
application/vnd.commonspace   csp
application/vnd.contact.cmsg   cdbcmsg
# application/vnd.coreos.ignition+json
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.unspecified 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
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application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
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application/vnd.dvb.ipdcesgaccess2
application/vnd.dvb.ipdcesgpdd
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#
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application/vnd.dvb.notif-ia-registration-response+xml
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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
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application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
application/vnd.enphase.envoy
application/vnd.eprints.data+xml
application/vnd.epson.esf esf
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application/vnd.epson.quickanime qam
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application/vnd.etsi.iptvcommand+xml
application/vnd.etsi.iptvdiscovery+xml
application/vnd.etsi.iptvprofile+xml
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application/vnd.etsi.tsl.der
#
application/vnd.eudora.data
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application/vnd.ezpix-package ez3
application/vnd.f-secure.mobile
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application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
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application/vnd.ffsns

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# 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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#
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# application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet   fzs
application/vnd.genomatix.tuxedo  txd
# application/vnd.geo+json
# application/vnd.geocube+xml
application/vnd.geogebra.file   ggb
application/vnd.geogebra.tool   ggt
application/vnd.geometry-explorer  gex gre
application/vnd.geonext    gxt
application/vnd.geoplan    g2w
application/vnd.geospace   g3w
# application/vnd.gerber
# application/vnd.globalplatform.card-content-mgt
# application/vnd.globalplatform.card-content-mgt-response
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application/vnd.google-earth.kml+xml  kml
application/vnd.google-earth.kmz  kmz
# application/vnd.gov.sk.e-form+xml
# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
application/vnd.grafeq    gqf gqs
# application/vnd.gridmp
application/vnd.groove-account   gac
application/vnd.groove-help   ghf
application/vnd.groove-identity-message  gim
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application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg
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application/vnd.hal+xml hal
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application/vnd.hbci hbci
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application/vnd.heroku+json
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application/vnd.hp-hpid hpid
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application/vnd.ibm.minipay mpy
application/vnd.ibm.modcap afp listafp list3820
application/vnd.ibm.rights-management irm
application/vnd.ibm.secure-container sc
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icm
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application/vnd.igloader igl
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application/vnd.immervision-ivu ivu
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application/vnd.ims.imsccv1p3
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application/vnd.informix-visionary
application/vnd.infotech.project
application/vnd.infotech.project+xml

```
# application/vnd.innopath.wamp.notification
application/vnd.insors.igm   igm
application/vnd.intercon.formnet  xpw xpx
application/vnd.intergeo   i2g
# application/vnd.intertrust.digibox
# application/vnd.intertrust.nncp
application/vnd.intu.qbo   qbo
application/vnd.intu.qfx   qfx
#
 application/vnd.iptc.g2.catalogitem+xml
# application/vnd.iptc.g2.conceptitem+xml
# application/vnd.iptc.g2.knowledgeitem+xml
# application/vnd.iptc.g2.newsitem+xml
# application/vnd.iptc.g2.newsmessage+xml
# application/vnd.iptc.g2.packageitem+xml
# application/vnd.iptc.g2.planningitem+xml
application/vnd.ipunplugged.rcprofile  rcprofile
application/vnd.irepository.package+xml  irp
application/vnd.is-xpr    xpr
application/vnd.isac.fcs   fcs
application/vnd.jam    jam
# application/vnd.japannet-directory-service
# application/vnd.japannet-jpnstore-wakeup
# application/vnd.japannet-payment-wakeup
# application/vnd.japannet-registration
# application/vnd.japannet-registration-wakeup
# application/vnd.japannet-setstore-wakeup
# application/vnd.japannet-verification
# application/vnd.japannet-verification-wakeup
application/vnd.jcp.javame.midlet-rms  rms
application/vnd.jisp    jisp
application/vnd.joost.joda-archive  joda
# application/vnd.jsk.isdn-ngn
application/vnd.kahootz    ktz
 ktr
application/vnd.kde.karbon   karbon
application/vnd.kde.kchart   chrt
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application/vnd.kde.kontour   kon
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application/vnd.kde.kspread   ksp
application/vnd.kde.kword   kwd kwt
application/vnd.kenameaapp   htke
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application/vnd.koan    skp skd skt skm
application/vnd.kodak-descriptor  sse
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application/vnd.lotus-approach apr
application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
application/vnd.lotus-organizer org
application/vnd.lotus-screencam scm
application/vnd.lotus-wordpro lwp
application/vnd.macports.portpkg portpkg
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application/vnd.marlin.drm.conftoken+xml
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application/vnd.mason+json
application/vnd.maxmind.maxmind-db
application/vnd.mcd mcd
application/vnd.medcalcdata mc1
application/vnd.mediastation.cdkey cdkey
application/vnd.meridian-slingshot
application/vnd.mfer mwf
application/vnd.mfmp mfm
application/vnd.micro+json
application/vnd.micrografx.flo flo
application/vnd.micrografx.igx igx
application/vnd.microsoft.portable-executable
application/vnd.miele+json
application/vnd.mif mif
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application/vnd.mobius.dis dis
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application/vnd.mobius.txf txf
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#
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# application/vnd.motorola.flexsuite.wem
# application/vnd.motorola.iprm
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# application/vnd.ms-3mfdocument
application/vnd.ms-artgalry   cil
# application/vnd.ms-asf
application/vnd.ms-cab-compressed  cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel   xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12  xlam
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application/vnd.ms-fontobject   eot
application/vnd.ms-htmlhelp   chm
application/vnd.ms-ims    ims
application/vnd.ms-lrm    lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme   thmx
#
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# application/vnd.ms-package.obfuscated-opentype
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application/vnd.ms-pki.stl   stl
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# application/vnd.ms-printschematicket+xml
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# application/vnd.ms-windows.printerpairing
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# application/vnd.ms-wmdrm.lic-resp
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# application/vnd.ms-wmdrm.meter-resp
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```

application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
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application/vnd.mseq mseq
application/vnd.msign
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application/vnd.multiad.creator.cif
application/vnd.music-niff
application/vnd.musician mus
application/vnd.muvee.style msty
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application/vnd.ntt-local.sip-ta_remote

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application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
application/vnd.oasis.opendocument.formula odf
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application/vnd.oasis.opendocument.presentation odp
application/vnd.oasis.opendocument.presentation-template otp
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application/vnd.oasis.opendocument.text odt
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application/vnd.oasis.opendocument.text-web oth
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application/vnd.obn
application/vnd.oftn.l10n+json
application/vnd.oipf.contentaccessdownload+xml
application/vnd.oipf.contentaccessstreaming+xml
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application/vnd.oipf.dae.svg+xml
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application/vnd.oipf.dae.xhtml+xml
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application/vnd.oipf.pae.gem
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application/vnd.oipf.userprofile+xml
application/vnd.olpc-sugar xo
application/vnd.oma-scws-config
application/vnd.oma-scws-http-request
application/vnd.oma-scws-http-response
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application/vnd.oma.bcast.drm-trigger+xml
application/vnd.oma.bcast.imd+xml
application/vnd.oma.bcast.ltkm
application/vnd.oma.bcast.notification+xml
application/vnd.oma.bcast.provisioningtrigger
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# application/vnd.oma.bcast.sprov+xml
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 application/vnd.oma.cab-feature-handler+xml
# application/vnd.oma.cab-pcc+xml
# application/vnd.oma.cab-subs-invite+xml
# application/vnd.oma.cab-user-prefs+xml
# application/vnd.oma.dcd
# application/vnd.oma.dcdc
application/vnd.oma.dd2+xml   dd2
# application/vnd.oma.drm.risd+xml
# application/vnd.oma.group-usage-list+xml
# application/vnd.oma.lwm2m+json
# application/vnd.oma.lwm2m+tlv
# application/vnd.oma.pal+xml
# application/vnd.oma.poc.detailed-progress-report+xml
# application/vnd.oma.poc.final-report+xml
# application/vnd.oma.poc.groups+xml
# application/vnd.oma.poc.invocation-descriptor+xml
# application/vnd.oma.poc.optimized-progress-report+xml
# application/vnd.oma.push
# application/vnd.oma.scidm.messages+xml
# application/vnd.oma.xcap-directory+xml
# application/vnd.omads-email+xml
# application/vnd.omads-file+xml
# application/vnd.omads-folder+xml
# application/vnd.omaloc-supl-init
# application/vnd.onepager
# application/vnd.openblox.game+xml
#
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# application/vnd.openeye.oeb
application/vnd.openofficeorg.extension  oxt
# application/vnd.openxmlformats-officedocument.custom-properties+xml
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# application/vnd.openxmlformats-officedocument.drawingml.diagramdata+xml
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# application/vnd.openxmlformats-officedocument.presentationml.comments+xml
# application/vnd.openxmlformats-officedocument.presentationml.handoutmaster+xml
#
```

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application/vnd.openxmlformats-officedocument.presentationml.tags+xml
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application/vnd.openxmlformats-officedocument.spreadsheetml.connections+xml
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#
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application/vnd.openxmlformats-officedocument.vmldrawing
application/vnd.openxmlformats-officedocument.wordprocessingml.comments+xml

application/vnd.openxmlformats-officedocument.wordprocessingml.document docx
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application/vnd.openxmlformats-officedocument.wordprocessingml.endnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.fonttable+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.footer+xml
#
application/vnd.openxmlformats-officedocument.wordprocessingml.footnotes+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.numbering+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.settings+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.styles+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.template dotx
application/vnd.openxmlformats-officedocument.wordprocessingml.template.main+xml
application/vnd.openxmlformats-officedocument.wordprocessingml.websettings+xml
application/vnd.openxmlformats-package.core-properties+xml
application/vnd.openxmlformats-package.digital-signature-xmlsignature+xml
application/vnd.openxmlformats-package.relationships+xml
application/vnd.oracle.resource+json
application/vnd.orange.indata
application/vnd.osa.netdeploy
application/vnd.osgeo.mapguide.package mgp
application/vnd.osgi.bundle
application/vnd.osgi.dp dp
application/vnd.osgi.subsystem esa
#
application/vnd.otps.ct-kip+xml
application/vnd.oxli.countgraph
application/vnd.pagerduty+json
application/vnd.palm pdb pqa oprc
application/vnd.panoply
application/vnd.paos.xml
application/vnd.pawaafile paw
application/vnd.pcos
application/vnd.pg.format str
application/vnd.pg.osasli ei6
application/vnd.piaccess.application-licence
application/vnd.picsel efif
application/vnd.pmi.widget wg
application/vnd.poc.group-advertisement+xml
application/vnd.pocketlearn plf
application/vnd.powerbuilder6 pbd
application/vnd.powerbuilder6-s
application/vnd.powerbuilder7
application/vnd.powerbuilder7-s
application/vnd.powerbuilder75
application/vnd.powerbuilder75-s
application/vnd.preminet
application/vnd.previewsystems.box box

application/vnd.proteus.magazine mgz
application/vnd.publishare-delta-tree qps
application/vnd.pvi.ptid1 ptid
application/vnd.pwg-multiplexed
application/vnd.pwg-xhtml-print+xml
application/vnd.qualcomm.brew-app-res
#
 application/vnd.quarantainenet
application/vnd.quark.quarkxpress qxd qxt qwd qwt qxl qxb
application/vnd.quobject-quoxdocument
application/vnd.radisys.moml+xml
application/vnd.radisys.msml+xml
application/vnd.radisys.msml-audit+xml
application/vnd.radisys.msml-audit-conf+xml
application/vnd.radisys.msml-audit-conn+xml
application/vnd.radisys.msml-audit-dialog+xml
application/vnd.radisys.msml-audit-stream+xml
application/vnd.radisys.msml-conf+xml
application/vnd.radisys.msml-dialog+xml
application/vnd.radisys.msml-dialog-base+xml
application/vnd.radisys.msml-dialog-fax-detect+xml
application/vnd.radisys.msml-dialog-fax-sendrecv+xml
application/vnd.radisys.msml-dialog-group+xml
application/vnd.radisys.msml-dialog-speech+xml
application/vnd.radisys.msml-dialog-transform+xml
application/vnd.rainstor.data
application/vnd.rapid
application/vnd.rar
application/vnd.realvnc.bed bed
application/vnd.recordare.musicxml mxl
application/vnd.recordare.musicxml+xml musicxml
#
 application/vnd.renlearn.rlprint
application/vnd.rig.cryptonote cryptonote
application/vnd.rim.cod cod
application/vnd.rn-realmedia rm
application/vnd.rn-realmedia-vbr rmvb
application/vnd.route66.link66+xml link66
application/vnd.rs-274x
application/vnd.ruckus.download
application/vnd.s3sms
application/vnd.sailingtracker.track st
application/vnd.sbm.cid
application/vnd.sbm.mid2
application/vnd.scribus
application/vnd.sealed.3df
application/vnd.sealed.csf
application/vnd.sealed.doc

application/vnd.sealed.eml
application/vnd.sealed.mht
application/vnd.sealed.net
application/vnd.sealed.ppt
application/vnd.sealed.tiff
application/vnd.sealed.xls
application/vnd.sealedmedia.softseal.html
application/vnd.sealedmedia.softseal.pdf
application/vnd.seemail see
application/vnd.sema sema
application/vnd.semd semd
application/vnd.semf semf
application/vnd.shana.informed.formdata ifm
application/vnd.shana.informed.formtemplate itp
application/vnd.shana.informed.interchange iif
application/vnd.shana.informed.package ipk
application/vnd.simtech-mindmapper twd
twds
application/vnd.siren+json
application/vnd.smaf mmf
application/vnd.smart.notebook
application/vnd.smart.teacher teacher
application/vnd.software602.filler.form+xml
application/vnd.software602.filler.form-xml-zip
application/vnd.solent.sdkm+xml sdkm sdkd
application/vnd.spotfire.dxp dxp
application/vnd.spotfire.sfs sfs
application/vnd.sss-cod
application/vnd.sss-dtf
application/vnd.sss-ntf
application/vnd.stardivision.calc sdc
application/vnd.stardivision.draw sda
application/vnd.stardivision.impress sdd
application/vnd.stardivision.math smf
application/vnd.stardivision.writer sdw vor
application/vnd.stardivision.writer-global sgl
application/vnd.stepmania.package smzip
application/vnd.stepmania.stepchart sm
application/vnd.street-stream
application/vnd.sun.wadl+xml
application/vnd.sun.xml.calc sxc
application/vnd.sun.xml.calc.template stc
application/vnd.sun.xml.draw sxd
application/vnd.sun.xml.draw.template std
application/vnd.sun.xml.impress sxi
application/vnd.sun.xml.impress.template sti
application/vnd.sun.xml.math sxm
application/vnd.sun.xml.writer sxw

application/vnd.sun.xml.writer.global sxg
application/vnd.sun.xml.writer.template stw
application/vnd.sus-calendar sus
susp
application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis sisx
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml
application/vnd.syncml.dmtnds+wbxml
application/vnd.syncml.dmtnds+xml
application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
application/vnd.tmd.mediaflex.api+xml
application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra
#
application/vnd.truedoc
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
application/vnd.uplanet.alert
application/vnd.uplanet.alert-wbxml
application/vnd.uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml
application/vnd.uplanet.signal
application/vnd.uri-map
application/vnd.valve.source.material
application/vnd.vcx vcx

```
# application/vnd.vd-study
# application/vnd.vectorworks
# application/vnd.vel+json
#
 application/vnd.verimatrix.vcas
# application/vnd.vidsoft.vidconference
application/vnd.visio    vsd vst vss vsw
application/vnd.visionary   vis
# application/vnd.vividence.scriptfile
application/vnd.vsf    vsf
# application/vnd.wap.sic
# application/vnd.wap.slc
application/vnd.wap.wbxml   wbxml
application/vnd.wap.wmlc   wmlc
application/vnd.wap.wmlscriptc   wmlsc
application/vnd.webturbo   wtb
# application/vnd.wfa.p2p
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player   nbp
application/vnd.wordperfect   wpd
application/vnd.wqd    wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf    stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara    xar
application/vnd.xfdl    xfdl
# application/vnd.xfdl.webform
#
 application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic   hvd
application/vnd.yamaha.hv-script  hvs
application/vnd.yamaha.hv-voice   hvp
application/vnd.yamaha.openscoreformat   osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
# application/vnd.yamaha.remote-setup
```

application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf
application/vnd.yamaha.through-ngn
application/vnd.yamaha.tunnel-udpencap
application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
application/vq-rtcpxr
application/watcherinfo+xml
application/whoispp-query
application/whoispp-response
application/widget wgt
application/winhlp hlp
application/wita
application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace
#
application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct cxt w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb

application/x-dtbresource+xml res
application/x-dvi dvi
application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf
#
application/x-font-dos
application/x-font-framemaker
application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-otf otf
application/x-font-pcf pcf
application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-ttf ttf ttc
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc
mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz

application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm
application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo
texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml

```
# application/xcap-ns+xml
# application/xcon-conference-info+xml
# application/xcon-conference-info-diff+xml
application/xenc+xml    xenc
application/xhtml+xml    xhtml
 xht
# application/xhtml-voice+xml
application/xml     xml xsl
application/xml-dtd    dtd
# application/xml-external-parsed-entity
# application/xml-patch+xml
# application/xmpp+xml
application/xop+xml    xop
application/xproc+xml    xpl
application/xslt+xml    xslt
application/xspf+xml    xspf
application/xv+xml    mxml xhvml xvml xvm
application/yang    yang
application/yin+xml    yin
application/zip     zip
# application/zlib
# audio/1d-interleaved-parityfec
# audio/32kadpcm
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm     adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
# audio/asc
# audio/atrac-advanced-lossless
# audio/atrac-x
# audio/atrac3
audio/basic     au snd
# audio/bv16
# audio/bv32
# audio/clearmode
# audio/cn
# audio/dat12
# audio/dls
# audio/dsr-es201108
# audio/dsr-es202050
# audio/dsr-es202211
# audio/dsr-es202212
# audio/dv
# audio/dvi4
```

```
# audio/eac3
# audio/encaprtp
# audio/evrc
# audio/evrc-qcp
# audio/evrc0
# audio/evrc1
#
 audio/evrcb
# audio/evrcb0
# audio/evrcb1
# audio/evrcnw
# audio/evrcnw0
# audio/evrcnw1
# audio/evrcwb
# audio/evrcwb0
# audio/evrcwb1
# audio/evs
# audio/example
# audio/fwdred
# audio/g711-0
# audio/g719
# audio/g722
# audio/g7221
# audio/g723
# audio/g726-16
# audio/g726-24
# audio/g726-32
# audio/g726-40
# audio/g728
# audio/g729
# audio/g7291
# audio/g729d
# audio/g729e
# audio/gsm
# audio/gsm-efr
# audio/gsm-hr-08
# audio/ilbc
# audio/ip-mr_v2.5
# audio/isac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
audio/midi     mid midi kar rmi
# audio/mobile-xmf
audio/mp4     m4a mp4a
# audio/mp4a-latm
```

```
# audio/mpa
# audio/mpa-robust
audio/mpeg      mpga mp2 mp2a mp3 m2a m3a
# audio/mpeg4-generic
# audio/musepack
audio/ogg      oga ogg spx
# audio/opus
# audio/parityfec
# audio/pcma
# audio/pcma-wb
# audio/pcmu
# audio/pcmu-wb
# audio/prs.sid
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3m      s3m
audio/silk      sil
#
 audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
# audio/vnd.cns.inf1
audio/vnd.dece.audio    uva uvva
audio/vnd.digital-winds    eol
# audio/vnd.dlna.adts
# audio/vnd.dolby.heaac.1
```

```
# audio/vnd.dolby.heaac.2
# audio/vnd.dolby.mlp
# audio/vnd.dolby.mps
# audio/vnd.dolby.pl2
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra     dra
audio/vnd.dts     dts
audio/vnd.dts.hd    dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice    lvp
audio/vnd.ms-playready.media.pya  pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800   ecelp4800
audio/vnd.nuera.ecelp7470   ecelp7470
audio/vnd.nuera.ecelp9600   ecelp9600
#
 audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip     rip
# audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm     weba
audio/x-aac     aac
audio/x-aiff     aif aiff aifc
audio/x-caf     caf
audio/x-flac     flac
audio/x-matroska    mka
audio/x-mpegurl     m3u
audio/x-ms-wax     wax
audio/x-ms-wma     wma
audio/x-pn-realaudio    ram ra
audio/x-pn-realaudio-plugin   rmp
# audio/x-tta
audio/x-wav     wav
audio/xm     xm
chemical/x-cdx     cdx
chemical/x-cif     cif
chemical/x-cmdf     cmdf
chemical/x-cml     cml
chemical/x-csml     csml
```

```
# chemical/x-pdb
chemical/x-xyz     xyz
image/bmp     bmp
image/cgm     cgm
# image/dicom-rle
# image/emf
# image/example
# image/fits
image/g3fax     g3
image/gif     gif
image/ief     ief
# image/jls
# image/jp2
image/jpeg     jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx     ktx
# image/naplps
image/png     png
image/prs.btif     btif
#
 image/prs.pti
# image/pwg-raster
image/sgi     sgi
image/svg+xml     svg svgz
# image/t38
image/tiff     tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop   psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic    uvi uvvi uvg uvvg
image/vnd.djvu     djvu djv
image/vnd.dvb.subtitle    sub
image/vnd.dwg     dwg
image/vnd.dxf     dxf
image/vnd.fastbidsheet    fbs
image/vnd.fpx     fpx
image/vnd.fst     fst
image/vnd.fujixerox.edmics-mmr   mmr
image/vnd.fujixerox.edmics-rlc   rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi    mdi
image/vnd.ms-photo    wdp
image/vnd.net-fpx    npx
```

```
# image/vnd.radiance
# image/vnd.sealed.png
# image/vnd.sealedmedia.softseal.gif
# image/vnd.sealedmedia.softseal.jpg
# image/vnd.svf
# image/vnd.tencent.tap
# image/vnd.valve.source.texture
image/vnd.wap.wbmp    wbmp
image/vnd.xiff     xif
# image/vnd.zbrush.pcx
image/webp     webp
# image/wmf
image/x-3ds     3ds
image/x-cmu-raster    ras
image/x-cmx     cmx
image/x-freehand    fh
 fhc fh4 fh5 fh7
image/x-icon     ico
image/x-mrsid-image    sid
image/x-pcx     pcx
image/x-pict     pic pct
image/x-portable-anymap    pnm
image/x-portable-bitmap    pbm
image/x-portable-graymap   pgm
image/x-portable-pixmap    ppm
image/x-rgb     rgb
image/x-tga     tga
image/x-xbitmap     xbm
image/x-xpixmap     xpm
image/x-xwindowdump    xwd
# message/cpim
# message/delivery-status
# message/disposition-notification
# message/example
# message/external-body
# message/feedback-report
# message/global
# message/global-delivery-status
# message/global-disposition-notification
# message/global-headers
# message/http
# message/imdn+xml
# message/news
# message/partial
message/rfc822     eml mime
# message/s-http
# message/sip
# message/sipfrag
```

```
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges	igs iges
model/mesh	msh mesh silo
model/vnd.collada+xml	dae
model/vnd.dwf	dwf
#
 model/vnd.flatland.3dml
model/vnd.gdl	gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw	gtw
# model/vnd.moml+xml
model/vnd.mts	mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu	vtu
model/vrml	wrl vrml
model/x3d+binary	x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml	x3dv x3dvz
model/x3d+xml	x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest	appcache
text/calendar	ics ifb
text/css	css
```

text/csv csv
text/csv-schema
#
text/directory
text/dns
text/ecmascript
text/encaprtp
text/enriched
text/example
text/fwdred
text/grammar-ref-list
text/html html htm
text/javascript
text/jcr-cnd
text/markdown
text/mizar
text/n3 n3
text/parameters
text/parityfec
text/plain txt text conf def list log in
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text/prs.fallenstein.rst
text/prs.lines.tag dsc
text/prs.prop.logic
text/raptorfec
text/red
text/rfc822-headers
text/richtext rtx
text/rtf
text/rtp-enc-aescm128
text/rtploopback
text/rtx
text/sgml sgml sgm
text/t140
text/tab-separated-values tsv
text/troff t tr roff man me ms
text/turtle ttl
text/ulpfec
text/uri-list uri uris urls
text/vcard vcard
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text/vnd.curl.dcurl dcurl
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text/vnd.in3d.3dml 3dml
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text/vnd.wap.sl
text/vnd.wap.wml wml
text/vnd.wap.wmlscript wmls
text/x-asm s asm
text/x-c c cc cxx cpp h hh dic
text/x-fortran f for f77 f90
text/x-java-source java
text/x-nfo nfo
text/x-opml opml
text/x-pascal p pas
text/x-setext etx
text/x-sfv sfv
text/x-uuencode uu
text/x-vcalendar vcs
text/x-vcard vcf
text/xml
text/xml-external-parsed-entity
video/1d-interleaved-parityfec
video/3gpp 3gp
video/3gpp-tt
video/3gpp2 3g2
video/bmpeg
video/bt656
video/celb
video/dv
video/encaprtp
#
video/example
video/h261 h261

```
video/h263	h263
# video/h263-1998
# video/h263-2000
video/h264	h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpeg	jpgv
# video/jpeg2000
video/jpm	jpm jpgm
video/mj2	mj2 mjp2
# video/mp1s
# video/mp2p
# 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
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# video/raw
# video/rtp-enc-aescm128
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# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
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# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
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# video/vnd.hns.video
# video/vnd.iptvforum.1dparityfec-1010
#
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video/vnd.iptvforum.1dparityfec-2005
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video/vnd.mpegurl mxu m4u
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video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv 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
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video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

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org.springframework.web.server.adapter.WebHttpHandlerBuilder$SpringWebBlockHoundIntegration

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* /spring-web-5-3-28-sources-jar/org/springframework/web/HttpMediaTypeException.java
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* /spring-web-5-3-28-sources-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
*
 /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/method/HandlerMethod.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/WebDataBinder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/PartGenerator.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/DefaultParts.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/ServletServerHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/BufferedImageHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/MultipartUtils.java
* /spring-web-5-3-28-sources-
jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
*
 /spring-web-5-3-28-sources-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/RequestMethod.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java

* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/TomcatHttpHandlerAdapter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageReader.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/pattern/CaptureVariablePathElement.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/ContentDisposition.java
*
/spring-web-5-3-28-sources-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/filter/RelativeRedirectFilter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/session/WebSessionIdResolver.java
* /spring-web-5-3-28-sources-
jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/ResourceHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/HttpRange.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/UrlPathHelper.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/ModelAttribute.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/method/HandlerTypePredicate.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/ServletHttpHandlerAdapter.java
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/spring-web-5-3-28-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlDecoder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/HierarchicalUriComponents.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/client/support/RestGatewaySupport.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/FormHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/MultipartParser.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/JettyHeadersAdapter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/ResponseCookie.java
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/spring-web-5-3-28-sources-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/JavaScriptUtils.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/AbstractServerHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/async/WebAsyncManager.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/StandardServletEnvironment.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/xml/SourceHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/ClientCodecConfigurer.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/UndertowHttpHandlerAdapter.java
*
/spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/HttpMethod.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/MediaType.java
* /spring-web-5-3-28-sources-
jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java

* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/ServletRequestDataBinder.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/ServerCodecConfigurer.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/ServletWebRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/WebUtils.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/HttpComponentsClientHttpRequest.java
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/spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/ServerHttpResponseDecorator.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/adapter/DefaultServerWebExchange.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/RequestEntity.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/reactive/JettyHeadersAdapter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/pattern/RegexPathElement.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/ServletContextResource.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/xml/AbstractXmlHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/util/ServletRequestPathUtils.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
*
/spring-web-5-3-28-sources-jar/org/springframework/web/filter/GenericFilterBean.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/ServletServerHttpRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/Part.java

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* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/MaxUploadSizeExceededException.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/cors/reactive/CorsProcessor.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/codec/multipart/FormFieldPart.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/AsyncClientHttpRequestFactory.java
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* /spring-web-5-3-28-sources-jar/org/springframework/remoting/jaxws/JaxWsPortClientInterceptor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/WebDataBinderFactory.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/MultipartException.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/server/ServerWebInputException.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/ServletRequestUtils.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/client/Netty4ClientHttpResponse.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/support/ProxyFactoryBean.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/support/SessionAttributeStore.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/BufferingClientHttpRequestWrapper.java
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* /spring-web-5-3-28-sources-jar/org/springframework/http/HttpMessage.java
* /spring-web-5-3-28-sources-jar/org/springframework/web/server/WebFilterChain.java
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 /spring-web-5-3-28-sources-jar/org/springframework/web/util/HttpSessionMutexListener.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/bind/annotation/SessionAttributes.java
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* /spring-web-5-3-28-sources-jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/converter/HttpMessageConversionException.java
* /spring-web-5-3-28-sources-jar/org/springframework/http/client/AbstractClientHttpRequestFactoryWrapper.java
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*
 /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
* /spring-beans-5-3-28-sources-
jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
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 /spring-beans-5-3-28-sources-jar/org/springframework/beans/FatalBeanException.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/BeanWrapper.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/parsing/Problem.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
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jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
*
 /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/parsing/ReaderContext.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/parsing/BeanEntry.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
* /spring-beans-5-3-28-sources-
jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
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* /spring-beans-5-3-28-sources-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/parsing/QualifierEntry.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-5-3-28-sources-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java
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/spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/annotation/Lookup.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/FactoryBean.java
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jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
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jar/org/springframework/beans/factory/annotation/RequiredAnnotationBeanPostProcessor.java
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jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
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/spring-beans-5-3-28-sources-jar/org/springframework/beans/TypeConverter.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
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* /spring-beans-5-3-28-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
*
/spring-beans-5-3-28-sources-jar/org/springframework/beans/PropertyValue.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/TypeConverterSupport.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-5-3-28-sources-jar/org/springframework/beans/propertyeditors/UUIDEditor.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/ProxyFactory.java
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 /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/intercept/MethodInvocation.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/intercept/Invocation.java
* /spring-aop-5-3-28-sources-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/aop/Advice.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java
*
 /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/DebugInterceptor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/AdvisorEntry.java

* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/AdviceEntry.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/PointcutEntry.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
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jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /spring-aop-5-3-28-sources-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/DelegatingIntroductionInterceptor.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
*
 /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/AopProxyUtils.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/target/dynamic/Refreshable.java
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 /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/scope/ScopedObject.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /spring-aop-5-3-28-sources-
jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/AopInvocationException.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java

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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/IntroductionInfo.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
*
 /spring-aop-5-3-28-sources-jar/org/springframework/aop/ProxyMethodInvocation.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
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* /spring-aop-5-3-28-sources-jar/org/aopalliance/intercept/Interceptor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/Pointcuts.java
*
 /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/RootClassFilter.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/ComposablePointcut.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/MethodMatchers.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/ClassFilter.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/ClassFilters.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
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 /spring-aop-5-3-28-sources-jar/org/springframework/aop/TruePointcut.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/TargetSource.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/aop/AspectException.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/TrueMethodMatcher.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
* /spring-aop-5-3-28-sources-jar/org/aopalliance/intercept/MethodInterceptor.java

* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
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/spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/MethodBeforeAdvice.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
*
/spring-aop-5-3-28-sources-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/AdvisorChainFactory.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/AopConfigUtils.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java
* /spring-aop-5-3-28-sources-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
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* /spring-aop-5-3-28-sources-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
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1.791 spring-context 5.3.28

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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
*
 <p>The {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Conditional.java
```

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```
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* /spring-context-5-3-28-sources-jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ApplicationEventPublisher.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/ui/ModelMap.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ParserStrategyUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/annotation/Async.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-5-3-28-sources-
jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/EventExpressionEvaluator.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/AnnotationCacheOperationSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
*
```

/spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-5-3-28-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
*
/spring-context-5-3-28-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/GenericApplicationContextExtensions.kt
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-5-3-28-sources-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
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* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/SpringModelMBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
*
/spring-context-5-3-28-sources-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ApplicationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/PropertySources.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
* /spring-context-5-3-28-sources-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/annotation/Validated.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.

* Callers are expected to handle this issue type specifically.
*
 * @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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* /spring-context-5-3-28-sources-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /spring-context-5-3-28-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/validation/AbstractErrors.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/index/CandidateComponentsIndex.java
* /spring-context-5-3-28-sources-
jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-5-3-28-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
*
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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Condition.java

* /spring-context-5-3-28-sources-jar/org/springframework/ejb/access/LocalSlsbInvokerInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/BindException.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
* /spring-context-5-3-28-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-5-3-28-sources-
jar/org/springframework/context/support/AbstractResourceBasedMessageSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/access/MBeanClientInterceptor.java
* /spring-context-5-3-28-sources-
jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
* /spring-context-5-3-28-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/PropertySource.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/AbstractBindingResult.java
*
 /spring-context-5-3-28-sources-
jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/SimpleKey.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/SimpleThreadScope.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /spring-context-5-3-28-sources-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
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 /spring-context-5-3-28-sources-jar/org/springframework/cache/support/NoOpCache.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/PeriodicTrigger.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ApplicationStartupAware.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ConditionContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/TriggerContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Bean.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/cache/support/NoOpCacheManager.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java

* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/LiveBeansViewMBean.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/SimpleTriggerContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /spring-context-5-3-28-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/TaskScheduler.java
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 /spring-context-5-3-28-sources-jar/org/springframework/cache/support/SimpleCacheManager.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
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* /spring-context-5-3-28-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-5-3-28-sources-
jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
*
/spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /spring-context-5-3-28-sources-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-5-3-28-sources-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/Parser.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/RemoteInvocationUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/PeriodFormatter.java
*
/spring-context-5-3-28-sources-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/Printer.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /spring-context-5-3-28-sources-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java
*
/spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/annotation/Schedules.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/Caching.java
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* /spring-context-5-3-28-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
*
 /spring-context-5-3-28-sources-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/number/PercentStyleFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/joda/DurationFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/ScriptEvaluator.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/RemoteTimeoutException.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ImportResource.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/CacheConfig.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Role.java

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* /spring-context-5-3-28-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-5-3-28-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
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* /spring-context-5-3-28-sources-jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
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 /spring-context-5-3-28-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/scripting/ScriptFactory.java
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* /spring-context-5-3-28-sources-jar/org/springframework/stereotype/Component.java
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* /spring-context-5-3-28-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/access/MBeanProxyFactoryBean.java
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* /spring-context-5-3-28-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
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* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
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* /spring-context-5-3-28-sources-jar/org/springframework/scripting/ScriptCompilationException.java
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* /spring-context-5-3-28-sources-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
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* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/EnableCaching.java
* /spring-context-5-3-28-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
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* /spring-context-5-3-28-sources-jar/org/springframework/ui/context/support/SimpleTheme.java
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* /spring-context-5-3-28-sources-jar/org/springframework/remoting/soap/SoapFaultException.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/MBeanExportException.java
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* /spring-context-5-3-28-sources-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /spring-context-5-3-28-sources-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
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* /spring-context-5-3-28-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
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* /spring-context-5-3-28-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
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* /spring-context-5-3-28-sources-jar/org/springframework/ui/context/HierarchicalThemeSource.java
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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/ContextRefreshedEvent.java
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/spring-context-5-3-28-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
* /spring-context-5-3-28-sources-jar/org/springframework/remoting/RemoteProxyFailureException.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/Trigger.java
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* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-5-3-28-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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* /spring-context-5-3-28-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
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* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/Cacheable.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-
jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
*
* <p>This {@code FactoryBean} is
 a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/AdminServiceFactory.html">{@code AdminServiceFactory}</a>
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/MBeanFactory.html">{@code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/context/PayloadApplicationEvent.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/BeanMethod.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/CompositeCronField.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /spring-context-5-3-28-sources-
jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
*
 /spring-context-5-3-28-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/CronField.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/Lazy.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/support/BindingAwareModelMap.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/SmartApplicationListener.java
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* /spring-context-5-3-28-sources-jar/org/springframework/context/support/GenericGroovyApplicationContext.java
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* /spring-context-5-3-28-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/context/event/SourceFilteringListener.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/annotation/ValidationAnnotationUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/CronTrigger.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
* /spring-context-5-3-28-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
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* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /spring-context-5-3-28-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
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* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/CronExpression.java
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* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/TypeFilterUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/support/BeanDefinitionDsl.kt
* /spring-context-5-3-28-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-5-3-28-sources-jar/org/springframework/format/datetime/DateFormatter.java
* /spring-context-5-3-28-sources-jar/org/springframework/scheduling/support/BitsCronField.java
* /spring-context-5-3-28-sources-
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* /spring-context-5-3-28-sources-jar/org/springframework/validation/Validator.java
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/spring-context-5-3-28-sources-jar/org/springframework/context/annotation/AnnotationConfigUtils.java
* /spring-context-5-3-28-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OpDec.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OpMinus.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
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/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OperatorNot.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/Selection.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /spring-expression-5-3-28-sources-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OpGT.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OpDivide.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/EvaluationException.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/BeanReference.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/support/ReflectionHelper.java
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 /spring-expression-5-3-28-sources-jar/org/springframework/expression/BeanResolver.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/CodeFlow.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/TypeComparator.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/TypeConverter.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/Token.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/InlineMap.java
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jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
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 /spring-expression-5-3-28-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/CompoundExpression.java

* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
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/spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /spring-expression-5-3-28-sources-
jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelMessage.java
* /spring-expression-5-3-28-sources-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/ExpressionException.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/standard/SpelCompiler.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/ast/Elvis.java
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 /spring-expression-5-3-28-sources-jar/org/springframework/expression/AccessException.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/ParseException.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelParseException.java
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jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
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* /spring-expression-5-3-28-sources-jar/org/springframework/expression/spel/SpelNode.java
* /spring-expression-5-3-28-sources-jar/org/springframework/expression/TypedValue.java
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jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /spring-expression-5-3-28-sources-
jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
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1.793 guava 32.1.1-jre

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- 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_2.xsd
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- javaee_web_services_1_3.xsd
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(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software. The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.

The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-native
project developed at Twitter
* Copyright 2014 The Netty Project
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For portions of the Tomcat cloud support
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_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
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- web-fragment_4_0.xsd

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- jakarta_web-services_2_0.xsd
- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
- web-fragment_5_0.xsd
- web-fragment_6_0.xsd
-
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- web-jsptaglibrary_3_1.xsd

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1.796 flexnet-publisher 11.10.0.0

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SERVER this_host any
DAEMON demo
The purpose of this file is to illustrate optional extensions to
a license file.

Floating, unexpiring, counted
FEATURE name: f1
VERSION: 1.000
Expiration: never
Users: 9 concurrent users
LINGER

FEATURE f1 demo 1.000 permanent 9 0

Floating, expiring, counted
FEATURE name: f1
VERSION: 1.000
Expiration: 1-jan-1999

```
 # Users:  9 concurrent users

FEATURE f2 demo 1.000 01-jan-1999 9 0


 # Floating, expiring, counted, Incremental
 #Same as previous, but will ADD 9 users to an existing file.

INCREMENT f2 demo 1.000 01-jan-1999 9 0
 #The following demo line has these properties:

 # It expires on 1-jan-1999
 # It's uncounted, and therefore requires no server (no
 # lmgrd needed)
 # It will run on any node.

FEATURE f1 demo 1.000 01-jan-1999 uncounted 0 HOSTID=DEMO


      # The next demo line is just like the first, but will not
      # expire.  This is ONLY useful if your application gets the
      # CONFIG * struct for this FEATURE line, and determines that
      # it's a DEMO type HOSTID, and uses this fact to limit the
      # behavior of the application to "demonstration" functions
      # only.


FEATURE f2 demo 1.000 01-jan-0 uncounted 0 HOSTID=DEMO
 # Users can change "this_host" to the real hostname, but
 # they cannot change the hostid (ANY).  In practice,
 # you'll probably want to use a real hostid


SERVER this_host ANY

 #Put your DAEMON name here.

DAEMON demo

 ############################  FEATURE LINES  ##############################

 #Floating, unexpiring, counted
 #FEATURE name:  f1
 #VERSION: 1.000
 #Expiration: never
 #Users:  4 concurrent users

FEATURE f1 demo 1.000 permanent 4 0
```

```
 #Floating, expiring, counted
 #FEATURE name:  f1
 #VERSION: 1.000
 #Expiration: 1-jan-1999
 #Users:  4 concurrent users

FEATURE f2 demo 1.000 01-jan-1999 4 0


 #Floating, expiring, counted, Incremental
 # Same as previous, but will ADD 1 user to an existing file.

INCREMENT f2 demo 1.000 01-jan-1999 1 0
 #SERVER runs on hostid 12345678
 # Users can change the hostname and port number, but
 # Not the hostid

SERVER this_host 12345678

 #Put your DAEMON name here.  Users can change the path to the daemon

DAEMON demo

 ############################  FEATURE LINES  ##############################

 #Counted, node-locked
 #FEATURE names:  f1, f2 and f3
 #VERSION: 1.000
 #Expiration: never (that's because the year in the date is '0')
 #Users:  9 concurrent users
 #Node-locked: hostid abc.  All 9

FEATURE f1 demo 1.000 permanent 9 0 HOSTID=abc ck=0
FEATURE f2 demo 1.000 permanent 9 0 HOSTID=abc ck=0
FEATURE f3 demo 1.000 permanent 9 0 HOSTID=abc ck=0

 #5 more for HOSTID def

INCREMENT f1 demo 1.000 permanent 5 0 HOSTID=def
INCREMENT f2 demo 1.000 permanent 5 0 HOSTID=def
INCREMENT f3 demo 1.000 permanent 5 0 HOSTID=def

 #uncounted (unlimited use) for HOSTID 123
 #A server is not needed for the following 3 lines.

FEATURE f4 demo 1.000 01-jan-0 uncounted 0 HOSTID=123
FEATURE f5 demo 1.000 01-jan-0
```

uncounted 0 HOSTID=123
FEATURE f6 demo 1.000 01-jan-0 uncounted 0 HOSTID=123
################### Example 1 ###################################
#Suite, containing 2 components. In this example, if you checkout
"comp1", a license for "suite" is also checked out.

PACKAGE suite demo 1.000 0 COMPONENTS="comp1 comp2 comp3 comp4" OPTIONS=SUITE

#A sample accompanying license file that would enable "suite",
giving the end-user 2 uses each of comp1, comp2, comp3 comp4

SERVER this_host 08002b32b161
DAEMON demo
FEATURE suite demo 1.000 permanent 2 0

################### Example 2 ###################################
#Without OPTIONS=SUITE, the PACKAGE line is a convenience tool for
distribution. If you checkout a component, the enabling
feature is NOT also checked out.

PACKAGE products demo 1.000 0 COMPONENTS="f1 f2 f3 f4" OPTIONS=SUITE

#The vendor can now ship this node-locked, uncounted to 4 nodes with
the following license file:

FEATURE products demo 1.000 permanent uncounted 0 VENDOR_STRING="1" \
HOSTID="1 2
3 4"

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1.801 tomcat-dbcp 10.1.10

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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

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*       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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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 367203 - [compiler][null] detect assigning null to nonnull argument
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*       bug 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
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*       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
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*   BEA - Patch for bug 172743
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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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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 **/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/GuardedPattern.java
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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields

* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 * Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 458396 - NPE in CodeStream.invoke()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

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* Stephan Herrmann - 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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* Jesper S Moller <jesper@selskabet.org> - initial API and implementation

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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*   Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized
type due to bound(s) mismatch
*   Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*   Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*   Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

```
 *       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*     Jesper S Møller  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********************************************************************************/
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
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*   bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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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 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
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*   wharley@bea.com - derived base class from BatchMessagerImpl
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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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
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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 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

```
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*           bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
**********************************************************************************/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.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 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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*   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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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.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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*   Bug 186342 - [compiler][null] Using annotations for null checking
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
```

```
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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*    Igor Fedorenko - extracted from ElementsImpl
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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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*   Jesper Steen Moeller - Contributions for:
*   Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
**/

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*   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 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"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*                       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 458396 - NPE in CodeStream.invoke()
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*   bug 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypePattern.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Pattern.java
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*     het@google.com - Bug 441790
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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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* Contributors:
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* Stephan Herrmann - Contributions for

* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
***/

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*
* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
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* Contributors:
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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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
**********/

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*   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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
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*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 331649 - [compiler][null] consider null annotations for fields
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*         Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*         Bug 458396 - NPE in CodeStream.invoke()
*         Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*     Till Brychcy - Contribution for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********************************************************************************/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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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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*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
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*   Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null
 analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

* Stephan Herrmann - Contribution for
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*     Jesper Steen Moller - Contributions for:
*         Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.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 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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*     Stephan Herrmann - Contributions for
*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
```

```
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*           bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
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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
*
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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 349326 - [1.7] new warning for missing try-with-resources
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*        bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*        bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*        Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*        Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*        Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*        Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                        bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                        bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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*        Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
bug 407191 - [1.8] Binary access support for type annotations
**********/

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* Stephan Herrmann - Contributions for
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/ConditionalFlowInfo.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 404728 - [1.8]NPE on QualifiedSuperReference error
**********/

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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java
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*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java
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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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*   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
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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*   Stephan Herrmann - Contribution for
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
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*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

```
*                   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CodeStream.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
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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 - Contribution for
*        bug 383368 - [compiler][null] syntactic null analysis for field references
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*        bug 331649 - [compiler][null] consider null annotations for fields
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
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*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 185682 - Increment/decrement operators mark local variables as read
*          bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
```

```
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*               bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*        bug 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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*        bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434600 - Incorrect null analysis error reporting on type parameters
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*        Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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*   Genady Beriozkin - added support for reporting assignment with no effect
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
********************************************************************************/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*        Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*        Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*        Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                       Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                       Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                       Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
*******************************************************************************/
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*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*   bug 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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*   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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* 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
*   Dennis Hendriks - fix for bug 574449.
*   Frits Jalvingh - fix for bug 533830.
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*   Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
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*   Stephan Herrmann - Contribution for
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java

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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*   het@google.com - Bug 441790
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong

```
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Bug 529556 - [18.3] Add content assist support for 'var' as a type
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*       Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
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*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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*        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 <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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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 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
```

```
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                       Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 434556 - Broken class file generated for incorrect annotation usage
*                       Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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*   Bug 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 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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*     Till Brychcy - Contributions for
*                         Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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* Contributors:
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*     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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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* Contributors:
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*
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*******************************************************************************/
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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintTypeFormula.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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java
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*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*   Bug 456924 - StackOverflowError during compilation
*   Bug 462790 - [null] NPE in Expression.computeConversion()
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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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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*          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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* Bug 458396 - NPE in CodeStream.invoke()
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AutomaticModuleNaming.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/FloatUtil.java
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*   Walter Harley   - Patch for ensuring the parent folders are created
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations

**********/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
*         TooManyArrayDimensions
*         TooManyBytesForStringConstant
*         TooManyMethods
*         TooManyFields
 *         NonBlankFinalLocalAssignment
*         ObjectCannotHaveSuperTypes
*         MissingSemiColon
*         InvalidParenthesizedExpression
*         EnclosingInstanceInConstructorCall
*         BytecodeExceeds64KLimitForConstructor
*         IncompatibleReturnTypeForNonInheritedInterfaceMethod
*         UnusedPrivateMethod
*         UnusedPrivateConstructor
*         UnusedPrivateType
*         UnusedPrivateField
*         IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*         InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*         PossibleAccidentalBooleanAssignment
*         SuperfluousSemicolon
*         IndirectAccessToStaticField
*         IndirectAccessToStaticMethod
```

```
*         IndirectAccessToStaticType
*         BooleanMethodThrowingException
*         UnnecessaryCast
*         UnnecessaryArgumentCast
*         UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*         UnusedMethodDeclaredThrownException
*         UnusedConstructorDeclaredThrownException
*         InvalidCatchBlockSequence
*         UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*         Javadoc
*         JavadocUnexpectedTag
*         JavadocMissingParamTag
*         JavadocMissingParamName
*         JavadocDuplicateParamName
*         JavadocInvalidParamName
*         JavadocMissingReturnTag
*         JavadocDuplicateReturnTag
*         JavadocMissingThrowsTag
*         JavadocMissingThrowsClassName
*         JavadocInvalidThrowsClass
*         JavadocDuplicateThrowsClassName
*         JavadocInvalidThrowsClassName
*         JavadocMissingSeeReference
*         JavadocInvalidSeeReference
*         JavadocInvalidSeeHref
*         JavadocInvalidSeeArgs
*         JavadocMissing
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*     IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*     IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*     IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
```

```
*                       UnsafeGenericArrayForVarargs
*                       IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                       InvalidEncoding
*                       CannotReadSource
*                       EnumStaticFieldInInInitializerContext
*                       ExternalProblemNotFixable
*                       ExternalProblemFixable
*    IBM Corporation - added the following constants
*                       AnnotationValueMustBeAnEnumConstant
*                       OverridingMethodWithoutSuperInvocation
*                       MethodMustOverrideOrImplement
*                       TypeHidingTypeParameterFromType
*                       TypeHidingTypeParameterFromMethod
*                       TypeHidingType
*    IBM Corporation - added the following constants
*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*          NullLocalVariableComparisonYieldsFalse
 *          RedundantLocalVariableNullAssignment
*          NullLocalVariableInstanceofYieldsFalse
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                       InvalidUsageOfTypeParametersForAnnotationDeclaration
*                       InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*         RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*        MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*        UnusedObjectAllocation
*        PotentiallyUnclosedCloseable
*        PotentiallyUnclosedCloseableAtExit
*        UnclosedCloseable
*        UnclosedCloseableAtExit
*        ExplicitlyClosedAutoCloseable
*           RequiredNonNullButProvidedNull
 *         RequiredNonNullButProvidedPotentialNull
*         RequiredNonNullButProvidedUnknown
*         NullAnnotationNameMustBeQualified
*         IllegalReturnNullityRedefinition
*         IllegalRedefinitionToNonNullParameter
*         IllegalDefinitionToNonNullParameter
*         ParameterLackingNonNullAnnotation
*         ParameterLackingNullableAnnotation
```

* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing

```
*       NullUnboxing
*       NullExpressionReference
*       PotentialNullExpressionReference
*       RedundantNullCheckAgainstNonNullType
*       NullAnnotationUnsupportedLocation
*       NullAnnotationUnsupportedLocationAtType
*       NullityMismatchTypeArgument
*       ContradictoryNullAnnotationsOnBound
*       UnsafeNullnessCast
*       ContradictoryNullAnnotationsInferred
*       NonNullDefaultDetailIsNotEvaluated
*       NullNotCompatibleToFreeTypeVariable
*       NullityMismatchAgainstFreeTypeVariable
*       ImplicitObjectBoundNoNullDefault
*       IllegalParameterNullityRedefinition
*       ContradictoryNullAnnotationsInferredFunctionType
*       IllegalReturnNullityRedefinitionFreeTypeVariable
*       UnlikelyCollectionMethodArgumentType
*       UnlikelyEqualsArgumentType
*     Jesper S Moller  - added the following constants
*       TargetTypeNotAFunctionalInterface
*       OuterLocalMustBeEffectivelyFinal
*       IllegalModifiersForPackage
*       DuplicateAnnotationNotMarkedRepeatable
*       DisallowedTargetForContainerAnnotation
*       RepeatedAnnotationWithContainerAnnotation
*       ContainingAnnotationMustHaveValue
*       ContainingAnnotationHasNonDefaultMembers
*       ContainingAnnotationHasWrongValueType
*       ContainingAnnotationHasShorterRetention
*       RepeatableAnnotationHasTargets
*       RepeatableAnnotationTargetMismatch
*       RepeatableAnnotationIsDocumented
*       RepeatableAnnotationIsInherited
*       RepeatableAnnotationWithRepeatingContainerAnnotation
*       VarLocalMultipleDeclarators
*       VarLocalCannotBeArray
*       VarLocalReferencesItself
*       VarLocalWithoutInitizalier
*       VarLocalInitializedToNull
*       VarLocalCannotBeArrayInitalizers
*       VarLocalCannotBeLambda
*       VarLocalCannotBeMethodReference
*       VarIsReserved
*       VarIsReservedInFuture
*       VarIsNotAllowedHere
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
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* Contributors:
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*     IBM Corporation - Contribution for bug 188796
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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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*     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 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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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*         bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 366063 - Compiler should not add synthetic @NonNull annotations
*         bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*         bug 386356 - Type mismatch error with annotations and generics
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Sebastian Zarnekow - Contributions
```

for
*   bug 544921 - [performance] Poor performance with large source files
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
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*   Stephan Herrmann - Contribution for bug 295551
*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        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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*     Stephan Herrmann - Contributions for
*        bug 292478 - Report potentially null across variable assignment
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field
 references
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
```

```
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*       Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Expression.java
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*    IBM Corporation - Java 8 support
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
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*   Christoph Läubrich - use Filesystem helper method
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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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*   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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Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java
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*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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*     Stephan Herrmann - Contribution for
*           bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
```

```
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java
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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 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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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*

/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
*
/ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Jesper S Moller - Contributions for

```
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*******************************************************************************/
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*   bug 401271 - StackOverflowError
 when searching for a methods references
*   bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*   Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*   Bug 413958 - Function override returning inherited Generic Type
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*   Bug 426590 - [1.8][compiler] Compiler error with tenary operator

* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 559618 - No compiler warning for import from same package
* Bug 560630 - No warning on unused import on class from same package
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*   Bug 473178
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*   Bug 440474 - [null] textual encoding of external null annotations
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 364890 - BinaryTypeBinding should use char constants from Util
*   bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug

365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388800 - [1.8][compiler] detect default methods in class files
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 392245 - [1.8][compiler][null] Define whether
/ how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
* Bug 454182 - Internal compiler error when using
1.8 compliance for simple project
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Sebastian Zarnekow - Contributions for
* bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
* bug 566258 - Intermittent NPE in APT RoundDispatcher
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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```

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
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* Contributors:
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*     Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EmptyStatement.java
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*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
```

```
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
 */
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ExceptionLabel.java
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* Contributors:
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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 - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 416182 - [1.8][compiler][null]

Contradictory null annotations not rejected
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
**********/

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java

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*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*        Bug 434600 - Incorrect null analysis error reporting on type parameters
*        Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                        Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                        Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*      Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                        bug 529556 - [18.3] Add content assist support for 'var' as a type
*
*******************************************************************************/
```

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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java
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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 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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*     Tom Tromey - Contribution for bug 159641
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*           bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*           bug 295551 - Add option to automatically promote all warnings to errors
*           bug 359721 - [options] add command line option
 for new warning token "resource"
*       bug 365208 - [compiler][batch] command line options for annotation based null analysis
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*       Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
```

*   Jesper S Moller   - Contributions for
*   bug 407297 - [1.8][compiler] Control generation of parameter names by option
*   Mat Booth - Contribution for bug 405176
*   Frits Jalvingh -
 fix for bug 533830.
**********/

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*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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*        bug 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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*     Christoph Läubrich - use Filesystem helper 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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*   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 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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*         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 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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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 328281 - visibility leaks not detected when analyzing unused field in private class
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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*   Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug
 383368 - [compiler][null] syntactic null analysis for field references
*   bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
 null annotations
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

```
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*           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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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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* Bug 427438 - [1.8][compiler] NPE at
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***/

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* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       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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*   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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*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
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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
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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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
*
 /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*   Stephan Herrmann - Contributions for
*   bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 393719 - [compiler] inconsistent warnings on iteration variables
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*   bug 401035 - [1.8] A few tests have started failing recently
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods

```
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 393192 - Incomplete type hierarchy with > 10 annotations
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
           Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
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* Contributors:
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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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*            Bug 407191 - [1.8] Binary access support for type annotations
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*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*   IBM Corporation - Fix for bug 341494
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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.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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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*        Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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*          bug 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-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*     IBM Corporation - Bug fixes
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*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
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*     Stephan Herrmann - Contributions for
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharDelegateMap.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMap.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/util/CharArrayMapper.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*   Bug 431408 - Java 8 (1.8) generics bug
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*   Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*   Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*   Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*   Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*   Bug 462790 - [null] NPE in Expression.computeConversion()

```
 *       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*     Jesper S Møller <jesper@selskabet.org>  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major
version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********************************************************************************/

Found in path(s):
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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*     Stephan Herrmann - Contribution for
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for 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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*
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*        bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - Java 8 support
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* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
* /ecj-3-33-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java
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```
*     Stephan Herrmann - contributions for
*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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*                   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   bug 413873 - Warning "Method can be static" on method referencing a non-static
 inner class
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
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*   Stephan Herrmann - 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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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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* Stephan Herrmann - Contribution for
*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 292478 - Report potentially null across variable assignment,
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references

* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Jesper S Moller - <jesper@selskabet.org> - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 378674 - "The method can be declared as static" is wrong
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.804 p11-kit 0.23.14-5.el8_0

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1.805 libsemanage 2.9-3.el8

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy

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

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1.806 libsemanage 2.9-8.el8

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

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

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68
8, 2018-08-29T05:23:37-0700
Bnd-LastModified: 1535545434210
Bundle-Description: istack common utility code
Bundle-DocURL: http://www.oracle.com/
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-ManifestVersion: 2

Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.commons-runtime
Bundle-Vendor: Oracle Corporation
Bundle-Version: 3.0.7
Export-Package: com.sun.istack;version="3.0.7";uses:="javax.activation
,javax.xml.stream,org.xml.sax,org.xml.sax.helpers",com.sun.istack.loc
alization;version="3.0.7",com.sun.istack.logging;version="3.0.7"
Implementation-Title: istack common utility code runtime
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com.sun.istack
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Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Originally-Created-By: Apache Maven Bundle Plugin
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