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--- end of FTL.TXT ---

/* bdf.c

FreeType font driver for bdf files

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1.6 pcre 7.8

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
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End

1.7 uclibc 0.9.30

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*
* This is an original implementation of the DES and the crypt(3) interfaces
* by David Burren <davidb@werj.com.au>.
*
* An excellent reference on the underlying algorithm (and related
* algorithms) is:
*
* B. Schneier, Applied Cryptography: protocols, algorithms,
* and source code in C, John Wiley & Sons, 1994.
*
* Note that in that book's description of DES the lookups for the initial,
* pbox, and final permutations are inverted (this has been brought to the
* attention of the author). A list of errata for this book has been
* posted to the sci.crypt newsgroup by the author and is available for FTP.
*

* ARCHITECTURE ASSUMPTIONS:
* It is assumed that the 8-byte arrays passed by reference can be
* addressed as arrays of u_int32_t's (ie. the CPU is not picky about
* alignment).
*/
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1.8 glibc 2.12.2

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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) 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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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to
give the program's name and a brief idea of what it does.>
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in an interactive mode:

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The hypothetical commands 'show w' and 'show c' should show the appropriate
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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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
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that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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"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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portion of it, either verbatim
or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for
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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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and what the program that uses the Library does.

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

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

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

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

These requirements
apply to the modified work as a whole. If
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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
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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

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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.

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

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1.9 ncurses 5.7

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1.10 libjpeg 6b

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The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998

==========

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

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

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

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

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

inserting and extracting textual comments
in JFIF files.

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

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

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

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

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

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce

"uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
==========

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.

1.11 libpng 1.2.44

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A "png_get_copyright" function is available, for convenient use in "about"
boxes and the like:

  printf("%s",png_get_copyright(NULL));

Also, the PNG logo (in PNG format, of course)
 is supplied in the
files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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

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```
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Theodore Ts'o
23-June-2007

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1.14 glibc 2.13

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1.15 iptables 1.3.7

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1.16 e2fsprogs 1.41.14

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Theodore Ts'o
23-June-2007

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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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*
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*
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1.21 xinetd 2.3.15

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1.22 qt 4.8.5

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/* *                                                       * */
/* ********************************************************************** */
/* *                                                       * */
/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
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/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *
              * */
/* * This library's function is primarily to read and display MNG           * */
```

/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
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1.26 qjson 0.8.1

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1.28 zlib 1.2.8

1.28.1 Available under license :

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

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

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

1.29 libusb-compat 0.1.5

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1.30 omx 1.1.2

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This file will include all the extension structures defined in Bellagio
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1.31 ncurses 5.9

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1.32 commons-fileupload 1.2.2

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1.33 kmod 20

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1.34 sqlite 3.8.10.2

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
```

```
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
```

```
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^The SQLITE_CONFIG_SCRATCH option
 specifies a static memory buffer
** that SQLite can use for scratch memory.  ^(There are three arguments
** to SQLITE_CONFIG_SCRATCH:  A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc|heap allocations].
** This can help [Robson proof|prevent memory allocation
 failures] due to heap
** fragmentation in low-memory embedded systems.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
```

** to [sqlite3_config()].
** ^It is harmless, apart from the wasted
 memory,
** for the sz parameter to be larger than necessary. The first
** argument should pointer to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked
 otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods]
 structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>

** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
**
 profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
**
 <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function
 pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding

** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter
 is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
**
 by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const

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 char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size
 limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
**
 <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
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** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
** </dl>
*/

Found in path(s):
* /sqlite-amalgamation-201507162017-zip/sqlite3.h
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same

** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:

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**   <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^The SQLITE_CONFIG_SCRATCH option
 specifies a static memory buffer
** that SQLite can use for scratch memory.  ^(There are three arguments
** to SQLITE_CONFIG_SCRATCH:  A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc|heap allocations].
** This can help [Robson proof|prevent memory allocation
 failures] due to heap
** fragmentation in low-memory embedded systems.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
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** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
** to [sqlite3_config()].
** ^It is harmless, apart from the wasted
 memory,
** for the sz parameter to be larger than necessary.  The first
** argument should pointer to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache.  ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked
 otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods]
 structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
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** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
**
 profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
**
 <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function
 pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
```

** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter
 is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
**
 by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should

** be a pointer to a function of type void(*)(void*,sqlite3*,const
 char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size
 limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
**
 <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which

** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
** </dl>
*/
/*
** The "printf" code that
 follows dates from the 1980's. It is in
** the public domain.
**
****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
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** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
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**
****
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the
 way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**

```
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with
 locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
/*
** Advance the cursor to the next entry in the database.  If
** successful then set *pRes=0.  If the cursor
** was already pointing to the last entry in the database before
** this routine was called, then set *pRes=1.
**
**
 The main entry point is sqlite3BtreeNext().  That routine is optimized
** for the common case of merely incrementing the cell counter BtCursor.aiIdx
** to the next cell on the current page.  The (slower) btreeNext() helper
** routine is called when it is necessary to move to a different page or
** to restore the cursor.
**
** The calling function will set *pRes to 0 or 1.  The initial *pRes value
** will be 1 if the cursor being stepped corresponds to an SQL index and
** if this routine could have been skipped if that SQL index had been
** a unique index.  Otherwise the caller will have set *pRes to zero.
** Zero is the common case. The btree implementation is free to use the
** initial *pRes value as a hint to improve performance, but the current
** SQLite btree implementation does not. (Note that the comdb2 btree
```

** implementation does use this hint, however.)
*/

Found in path(s):
* /sqlite-amalgamation-201507162017-zip/sqlite3.c

1.35 cairo 1.12.16

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1.39 libpcap 1.7.4

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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
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@item
Convey the object code in, or embodied in, a physical product
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@item
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This is an attempt to acknowledge early contributions to the garbage
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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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The upstream for fdlibm is libgcj (http://gcc.gnu.org/java/), they sync
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* m4/ax_func_which_gethostbyname_r.m4

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1.41 cppformat 2.0.0

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

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

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

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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1.44 libnfnetlink 1.0.1

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1.45 libxml2 2.9.4

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1.46 mdnsresponder 765.50.9

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1.47 curl 7.54.1

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1.48 libusb 1.0.19

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freedom to share and change it. By contrast, the GNU General Public
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This license, the Lesser General Public License, applies to some
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can use it too, but we suggest

you first think carefully about whether
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strategy to use in any particular case, based on the explanations below.

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introduced by others.

Finally, software patents pose a constant threat to the existence
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any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
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any patent license obtained for a version of the library must be
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Most GNU software, including some libraries, is covered by the
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is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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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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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
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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
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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
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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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1.49 libdbusc++ 0.9.0

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

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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.

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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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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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That's all there is to it!

1.50 libdbus-java 0.4

1.51 boost 1.63.0

1.51.1 Available under license :

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<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">

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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
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  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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   <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
 the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

1.52 cjose 0.4.1

1.52.1 Available under license :

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1.53 libjpeg 8c

1.53.1 Available under license :

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```
/*
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/wrrle.c

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

```
/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager.  Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
```

* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /jpeg-8c-zip/jpeg-8c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

```
/*
* transupp.c
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application.  These are NOT part of the core
* JPEG library.  But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/transupp.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemdosa.asm
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```
/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library.  These are the "standard" API routines that are
* used in the normal full-compression case.  They are not used by a
* transcoding-only application.  Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcapistd.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdtrans.c
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```
/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library.  These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c.  But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcapimin.c
No license file was found, but licenses were detected in source scan.

```
/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager.  No other
```

* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work

* to be done in each pass).
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications",
Proc. Int'l. Conf. on Acoustics,
* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling
from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jidctint.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library.  These are the "standard" API routines that are
* used in the normal full-decompression case.  They are not used by a
* transcoding-only application.  Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdapistd.c
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```
/*
* jmorecfg.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations.  Most users will not need to touch this file.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmorecfg.h
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```
/*
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options]  inputfile outputfile
* djpeg [options]  [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program.  Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes.  Also, you MUST use the first
 style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided.  The syntax
* djpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/djpeg.c
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```
/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h.  On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply.  But if
```

```
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/



/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler support function
 prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming
 <stdlib.h> file.
*/
#define HAVE_STDLIB_H
```

```
/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly
 well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused.  To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN.  This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__  /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN  /* prevent jmorecfg.h from redefining it */
#endif



/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
```

```
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your
 compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED


#endif /* JPEG_INTERNALS */


/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED  /* BMP image file format */
#define GIF_SUPPORTED  /* GIF image file format */
#define PPM_SUPPORTED  /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED  /* Utah RLE image file format */
#define TARGA_SUPPORTED  /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin.  You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout.  See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
```

```
* and is harmless on most systems that don't.  If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT


#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jconfig.txt
No license file was found, but licenses were detected in source scan.

```
/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations.  However, it may not give the same results on all
* machines because of differences in roundoff behavior.  Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column.  Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled
 DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README).  The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs.  These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries.  The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
```

* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

THE JPEG LIBRARY
================

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
  in the distribution; it is generated during installation.
jmorecfg.h Additional
 configuration declarations; need not be changed
  for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
  system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The

other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJG distribution.
Most other applications will directly include the system include
 files they
want, and hence won't need jinclude.h.)

C source code files:

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

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

Compression side of the library:

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

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.

jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic
 entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
  Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

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

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

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

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

Non-C source code files:

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

CJPEG/DJPEG/JPEGTRAN
==========

Include
files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

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

Image file reader modules for cjpeg:

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

Image file writer modules for djpeg:

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

RDJPGCOM/WRJPGCOM
==========

C source code files:

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

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

ADDITIONAL FILES
==========

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

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

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

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
install-sh Install
 shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
aclocal.m4 M4 macro definitions for use with Autoconf.
ansi2knr.c De-ANSIfier for pre-ANSI C compilers (courtesy of
  L. Peter Deutsch and Aladdin Enterprises).

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

test*.* Source and comparison files for confidence test.
  These are binary image files, NOT text files.

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
* jpeglib.h

```
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jpeglib.h
No license file was found, but licenses were detected in source scan.

```
/*
* jdcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

```
/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
```

* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found
 in path(s):
* /jpeg-8c-zip/jpeg-8c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jerror.h
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jidctfst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*

* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jctrans.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

In
 this document, JPEG-specific terminology follows the JPEG standard:
 A "component" means a color channel, e.g., Red or Luminance.
 A "sample" is a single component value (i.e., one number in the image data).
 A "coefficient" is a frequency coefficient (a DCT transform output number).
 A "block" is an 8x8 group of samples or coefficients.
 An "MCU" (minimum coded unit) is an interleaved set of blocks of size
 determined by the sampling factors, or a single block in a
 noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would

otherwise result.)

*** System features ***

The IJG distribution contains two parts:
 * A subroutine
 library for JPEG compression and decompression.
 * cjpeg/djpeg, two sample applications that use the library to transform
   JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. Hierarchical processes are not
supported.

The library does not support the lossless (spatial) JPEG process. Lossless
JPEG shares little or no code with lossy JPEG, and would normally be used
without the extensive pre- and post-processing provided by this library.
We feel that lossless JPEG is better handled by a separate library.

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

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

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression
 or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library

provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

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

1. Memory usage. We want the code to be able to run on PC-class machines
with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes
if it is to conform to the standard. This may pose a
problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing

steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

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

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

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

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

The decompressor library contains the following main elements:

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

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color). [This feature is not currently implemented.]

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

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

allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries)
as a preprocessing/postprocessing function, even though the JPEG spec includes
it in compression/decompression. We do this because downsampling/upsampling
can be simplified a little if they work on padded data: it's not necessary to
have special cases at the right and bottom edges. Therefore the interface
buffer is always an integral number of blocks wide and high, and we expect
compression preprocessing to pad the source data properly. Padding will occur
only to the next block (8-sample) boundary. In an interleaved-scan situation,
additional dummy blocks may be used to fill out MCUs, but the MCU assembly and
disassembly logic will create or discard these blocks internally. (This is
advantageous
for speed reasons, since we avoid DCTing the dummy blocks.
It also permits a small reduction in file size, because the compressor can
choose dummy block contents so as to minimize their size in compressed form.
Finally, it makes the interface buffer specification independent of whether
the file is actually interleaved or not.) Applications that wish to deal
directly with the downsampled data must provide similar buffering and padding
for odd-sized images.

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

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

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

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct
containing one or more function pointer fields, each of which corresponds to
a method name in real object-oriented languages. During initialization we
fill in the function pointers with references to whichever module we have
determined we need to use in this run. Then invocation of the module is done
by indirecting through a function pointer; on most machines this is no more
expensive than a switch statement, which would be the only other way of
making the required run-time choice. The really significant benefit, of
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different
implementations of the same kind of object. We do this by making all the

module-specific object structs be separately allocated
 entities, which will
be accessed via pointers in the master compression or decompression struct.
The "public" fields or methods for a given kind of object are specified by
a commonly known struct. But a module's initialization code can allocate
a larger struct that contains the common struct as its first member, plus
additional private fields. With appropriate pointer casting, the module's
internal functions can access these private fields. (For a simple example,
see jdatadst.c, which implements the external interface specified by struct
jpeg_destination_mgr, but adds extra fields.)

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

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

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

*** Overall control structure ***

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

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

  1A. Startup initialization at the beginning of image processing.

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

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

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

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

Each buffer controller sees the world as follows:

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

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

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

The control modules are objects. A considerable amount of flexibility can
be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control
module and its pair of processing-step modules with a single processing-
step module. (Hence the possible merges are determined by the tree of
control modules.)
* In some processing modes, a given interstep buffer need only be a "strip"
buffer large enough to accommodate the desired data chunk sizes. In other
modes, a full-image buffer is needed and several passes are required.
The control module determines which kind of buffer is used and manipulates
virtual array buffers as needed. One or both processing steps may be
unaware
of the multi-pass behavior.

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

*** Compression object structure ***

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

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

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

The objects shown above are:

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

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

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the
data from pixel-interleaved layout to
separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may

require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

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

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

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

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

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

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

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal

errors. The surrounding application may
override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports.
This object represents an optional callback to the surrounding application:
if wanted, it must be supplied by the application.

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

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

*** Decompression object structure ***

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

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

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

* Main controller: buffer controller for the subsampled-data buffer, which
holds the output of JPEG decompression proper. This controller's primary
task is to feed the postprocessing procedure. Some upsampling algorithms
may require context rows above and below the current row group; when this
is
true, the main controller is responsible for managing its buffer so as
to make context rows available. In the current design, the main buffer is
always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data.
This controller handles MCU disassembly, including deletion of any dummy
DCT blocks at the right or bottom edge. When reading a multiscan JPEG

file, this controller is responsible for buffering the full image.
(Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of
subsampled data is processed per call, even when the source JPEG file is
noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call.
For progressive JPEG decoding, the coefficient controller supplies the prior
coefficients
of each MCU (initially all zeroes), which the entropy decoder
modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we
merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used
that need fewer coefficients and emit fewer samples per DCT block, not the
full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization
input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this
controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more
general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module,
this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module
also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color
conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space,
and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

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

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

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

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

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
  coefficient controller's DCT coefficient buffer. Note that this
  processing is relatively cheap and fast.

2. Data output reads from
 the DCT coefficient buffer and performs the IDCT
  and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get
arbitrarily far ahead of the data output processing. (This occurs only
if the application calls jpeg_consume_input(); otherwise input and output
run in lockstep, since the input section is called only when the output
section needs more data.) In this way the application can avoid making
extra display passes when data is arriving faster than the display pass
can run. Furthermore, it is possible to abort an output pass without
losing anything, since the coefficient buffer is read-only as far as the
output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple
scans (or if the application specifies buffered-image mode anyway). When
reading a single-scan file, the coefficient controller normally creates only
a one-MCU buffer, so input
 and output processing must run in lockstep in this
case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must
be very careful with shared variables in the cinfo data structure. Each
variable that can change during the course of decompression must be
classified as belonging to data input or data output, and each section must
look only at its own variables. For example, the data output section may not
depend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new
scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the
file as one pass when buffered-image mode is not used, and to ignore data
input work completely when buffered-image mode is used. Note that the
library has no reliable way to predict the number of passes when dealing
with a progressive JPEG file, nor can
 it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
  typedef something JSAMPLE;  a pixel component value, 0..MAXJSAMPLE
  typedef JSAMPLE *JSAMPROW;  ptr to a row of samples
  typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
  typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char,
(signed) char, or short. Short will be used if samples wider than 8 bits are
to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)",
 where the macro will be defined
as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard's
specification that sample values run from -128..127 is accommodated by
subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to
0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
defined as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width
 of
 the rows. This simplifies edge expansion/compression, since we can work
 in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many
 machines.
* Arrays with more than 64K total elements can be supported even on machines
 where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
 without extra copying. This trick allows some speedups in smoothing steps
 that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved
 JPEG files.

In general, a specific sample value is accessed by code such as
 GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend
with component-wise storage.)

Arrays
 of DCT-coefficient values use the following data structure:

```
  typedef short JCOEF;  a 16-bit signed integer
  typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
  typedef JBLOCK *JBLOCKROW;  ptr to one horizontal row of 8x8 blocks
  typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
  typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order, and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept
 in natural order everywhere; the entropy
codecs zigzag or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to
eight rows of samples. Otherwise the structure is much the same as for
samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on
80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that
call
the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.)
If a suspension occurs, the codec simply returns
without updating the state,
thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it

suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

 * JPOOL_PERMANENT lasts until master record is destroyed
 * JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried
across from one datastream to another; this includes all application-visible
parameters. Image lifetime is used for everything else. (A third lifetime,
JPOOL_PASS = one processing pass, was originally planned. However it was
dropped as not being worthwhile. The actual usage patterns are such that the
peak memory usage would be about the same anyway; and having per-pass storage
substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on
  image size. Semantically they
 behave the same as small objects, but we
  distinguish them for two reasons:
    * On MS-DOS machines, large objects are referenced by FAR pointers,
      small objects by NEAR pointers.
    * Pool allocation heuristics may differ for large and small objects.
  Note that individual "large" objects cannot exceed the size allowed by
  type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
  (typically large enough for the entire image being processed). The
  memory manager provides stripwise access to these arrays. On machines
  without virtual memory, the rest of the array may be swapped out to a
  temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
objects for the data proper and small objects for the row pointers. For
convenience and speed, the memory manager provides single routines to create
these structures. Similarly, virtual arrays include
 a small control block
and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
not very useful since a virtual array's raison d'etre is to store data for
multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at

once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan)
   during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
   allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available
   for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
never-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoefct.c for progressive
JPEG mode; we may as well make it available for possible other
uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent

"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end.
 The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
   (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
   else usually the same as
   jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers
 in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL
marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image
descriptor.
This implies that control modules must avoid making copies of the image
height, and must re-test for termination after each MCU row. This would
be easy enough to do.

In cases where image-size data structures are allocated, this approach will
result in very inefficient use of virtual memory or much-larger-than-necessary
temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options
(such as two-pass color quantization or noninterleaved
JPEG files) if they
want efficient conversion of such files. (One could improve efficiency by
demanding a user-supplied upper bound for the height, less than 65536; in most
cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height,
with a DNL to give the true, smaller height at the end of the first scan.
This would solve the space problems if the overestimate wasn't too great.
However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's
Huffman decoder; this implies a speed penalty whether the feature is used
or not.
2. There is no way to hide the last-minute change in image height from an
application using the decoder. Thus *every* application using the IJG
library would suffer a complexity penalty whether it cared about DNL or
not.
We currently do not support
DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a
separate program that reads ahead to the DNL, then goes back and fixes the SOF
marker. This is a much simpler solution and is probably far more efficient.
Even if one wants piped input, buffering the first scan of the JPEG file needs
a lot smaller temp file than is implied by the maximum-height method. For
this approach we'd simply treat DNL as a no-op in the decompressor (at most,
check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL.
Something similar to the first scheme above could be applied if anyone ever
wants to make that work.

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/structure.txt
No license file was found, but licenses were detected in source scan.

```
/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2008 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups".  A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component.  Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*   Digital Image Warping, George Wolberg, 1990.
*   Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdsample.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jccolor.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdcolor.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemname.c
No license file was found, but licenses were detected in source scan.

```
/*
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2008 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcparam.c

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

```
/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcmainct.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdct.h
No license file was found, but licenses were detected in source scan.

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

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2010, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation
script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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Installing the software
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Optimization
Hints for specific systems

BEFORE YOU START

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

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

CONFIGURING THE SOFTWARE
========================

To configure the IJG code for your system, you need to create two files:
 * jconfig.h: contains values for system-dependent #define symbols.
 * Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other
substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
 * On a Unix system,
 you can just run the "configure" script.
 * We provide sample jconfig files and makefiles for popular machines;
   if your machine matches one of the samples, just copy the right sample
   files to jconfig.h and Makefile.
 * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
----

If you are on a Unix machine, you can just type
 ./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
 sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

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

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
 ./configure --disable-shared
If you want to build libjpeg only as a shared library, say
 ./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
 ./configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
 ./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
 ./configure CFLAGS='-O2'
if you want to compile without debugging
 support.

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

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

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

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

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

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows NT/95, MS Visual C++
make*.vc6 jconfig.vc Windows NT/95, MS Visual C++ 6
make*.v10 jconfig.vc Windows NT/95, MS Visual C++ 2010 (v10)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile
(or
whatever your system uses as the standard makefile name). For more info see
the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

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

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

Second, select a makefile and copy it to Makefile (or whatever your system
uses as the standard makefile name). The most generic makefiles we provide
are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular

you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

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

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

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file
style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

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

Selecting a memory manager

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

memory managers:

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

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

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

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
  See the system-specific notes about MS-DOS for more info.
  IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
  jconfig.h, and include the assembly file jmemdosa.asm in the
  programs.
  The supplied makefiles and jconfig files for
  16-bit MS-DOS compilers already do both.

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

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

If you have plenty of (real or virtual) main memory, just use jmemnobs.c.
"Plenty" means about ten bytes for every pixel in the largest images
you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have
to use jmemname.c; be sure to adjust select_file_name() for local conditions.
You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM
setting to a reasonable value for your system (either by adding a #define
 for
DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to
allocate. Code and static data space isn't counted, so the actual memory
needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory

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

BUILDING THE SOFTWARE

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

Here are some things that could go wrong:

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

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

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

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

Also see the system-specific hints, below.

TESTING THE SOFTWARE

As a quick test of functionality we've included a small sample image in several forms:
 testorig.jpg Starting point for the djpeg tests.
 testimg.ppm The output of djpeg testorig.jpg
 testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
 testimg.jpg The output of cjpeg testimg.ppm
 testprog.jpg Progressive-mode equivalent of testorig.jpg.
 testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since JPEG is

lossy.) If you can generate duplicates of the testimg* files then you
probably have working programs.

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

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

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

If the cjpeg test run fails with "Missing Huffman code table entry", it's a
good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the
configuration step and run ckconfig.c. (This is a good plan for any other
test failure, too.)

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

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

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

INSTALLING THE SOFTWARE
=======================

Once you're done with the above steps, you can install the software by

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

If
 you generated a Makefile with the "configure" script, you can just say
 make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
 make -n install
to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

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

OPTIONAL STUFF
==============

Progress monitor:

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

Utah RLE file format support:

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

1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
   containing the URT .h files (typically the "include"
   subdirectory of the URT distribution).

3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
the directory containing the URT "librle.a" file (typically the
"lib" subdirectory of the URT distribution).

Support for 12-bit-deep pixel data:

The JPEG standard allows either 8-bit or 12-bit data precision. (For color,
this
means 8 or 12 bits per channel, of course.) If you need to work with
deeper than 8-bit data, you can compile the IJG code for 12-bit operation.
To do so:

1. In jmorecfg.h, define BITS_IN_JSAMPLE as 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED,
because the code for those formats doesn't handle 12-bit data and won't
even compile. (The PPM code does work, as explained below. The GIF
code works too; it scales 8-bit GIF data to and from 12-bit depth
automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test
files are for 8-bit data.

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

Note that a 12-bit version will not read 8-bit JPEG files, nor vice versa;
so you'll want to keep around a regular 8-bit compilation as well.
(Run-time selection of data depth, to allow a single copy that does both,
is possible but would probably slow things down considerably;
it's very low
on our to-do list.)

The PPM reader (rdppm.c) can read 12-bit data from either text-format or
binary-format PPM and PGM files. Binary-format PPM/PGM files which have a
maxval greater than 255 are assumed to use 2 bytes per sample, MSB first
(big-endian order). As of early 1995, 2-byte binary format is not
officially supported by the PBMPLUS library, but it is expected that a
future release of PBMPLUS will support it. Note that the PPM reader will
read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming
data is automatically rescaled to either maxval=255 or maxval=4095 as
appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM
format, maxval 4095, when compiled with BITS_IN_JSAMPLE=12. Since this
format is not yet widely supported, you can disable it by compiling wrppm.c
with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a
standard 1-byte/sample
PPM or PGM file. (Yes, this means still another copy
of djpeg to keep around. But hopefully you won't need it for very long.
Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

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

Note that a 12-bit version of cjpeg always runs in "-optimize" mode, in
order to generate valid Huffman tables. This is necessary because our
default Huffman tables only cover 8-bit data.

Removing code:

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

OPTIMIZATION
============

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

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

in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

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

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

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

HINTS FOR SPECIFIC SYSTEMS

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

Acorn RISC OS:

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

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

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
dependency section.

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

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

Amiga:

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

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

Atari ST/STE/TT:

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

To use the 68881/68882 coprocessor for the floating point DCT, add the
compiler option "-8" to the project files and replace pcfltlib.lib with
pc881lib.lib

in cjpeg.prj and djpeg.prj. Or if you don't have a
coprocessor, you may prefer to remove the float DCT code by undefining
DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float
code will be too slow to be useful). In that case, you can delete
pcfltlib.lib from the project files.

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

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

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

Cray:

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

HP-UX:

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

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

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

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop
a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
The CodeWarrior source code is available from http://www.pobox.com/~jsam.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

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

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

Macintosh, Metrowerks CodeWarrior:

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

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power
of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

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

Macintosh, Think C:

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

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

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

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

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O
if you have that compiler version. (Use "cc -V" to check the version.)
Note that the R3000 chip is found in workstations from DEC and others.

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

The IJG code is designed to work well in 80x86 "small" or "medium" memory
models (i.e., data pointers are 16 bits unless explicitly declared "far";
code pointers can be either size). You may be able to use small model to
compile cjpeg or djpeg by itself, but you will probably have to use medium
model for any larger application. This won't make much difference in
performance. You *will*
 take a noticeable performance hit if you use a
large-data memory model, and you should avoid "huge" model if at all
possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use
a small-data memory model; be sure it is NOT defined if you use a large-data
model. (The supplied makefiles and jconfig files for Borland and Microsoft C
compile in medium model and define NEED_FAR_POINTERS.)

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

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

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

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

Most MS-DOS compilers treat stdin/stdout as text files, so you must use

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

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

None of the above comments about memory models apply if you are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

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

MS-DOS,
 Borland C:

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

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

MS-DOS, Microsoft C:

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

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

Note that this makefile assumes that the working copy of itself is called

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

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

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

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

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char".
The IJG code also defines typedef boolean, but we make it "int" by default.
This doesn't affect the IJG programs because we don't import those Windows
include files. But if you use the JPEG library in your own program, and some
of your program's files import one definition of boolean while some import the
other, you can get all sorts of mysterious problems. A good preventive step
is to make the IJG library use "unsigned char" for boolean. To do that,
add something like this to your jconfig.h file:
 /* Define "boolean" as unsigned char, not int, per Windows custom */
 #ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
 typedef unsigned char boolean;
 #endif
 #define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc,
 by the way.)

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

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

When using the library in a Windows application, you will almost certainly
want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
 1. it tries to write error and warning messages on stderr;
 2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
 fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
 MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least
 do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about
 memory models.) In the 16-bit memory
models only, you'll need to put
 #define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite. This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

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

will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually
more convenient under Windows. Note that this change will break
the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

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

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

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

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

For a 32-bit DLL you may want something like

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

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

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

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width
(about line 268 in v6 jdmerge.c):

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

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

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

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

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

Microsoft Windows, Microsoft Visual C++:

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

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

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

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

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

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications
as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the
command line
NMAKE /f makefile.vc setup-v10
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
(If you are using Visual Studio more recent than 2010 (v10), you'll
probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an

appropriate location on your path.

Note:
There seems to be an optimization bug in the compiler which causes the
self-test to fail with the color quantization
option.
We have disabled optimization for the file jquant2.c in the library
project file which causes the self-test to pass properly.

OS/2, Borland C++:

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

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it
faster than the default int method (but still slower than the fast int
method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

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

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/install.txt

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

```
/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines.  This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
*   * pool-based allocation and freeing of memory;
*   * policy decisions about how to divide available memory among the
*     virtual arrays;
*   * control logic for swapping virtual arrays between main memory and
*     backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of
 its functions
* are unnecessary in some systems.  For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed.  (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see
jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

```
/*
*  Block comments in this style.
*/
```

We indent statements in K&R style, e.g.,

```
 if (test) {
   then-part;
 } else {
   else-part;
 }
```

with
 two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

```
LOCAL(int
 *)
function_name (int a, char *b)
{
  code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

```
 #ifdef HAVE_PROTOTYPES
 #define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
```

```
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```
which is used like this:
```
struct function_pointers {
  JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHOD(void, term_entropy_encoder, (void));
};
```
Note the set of parentheses surrounding the parameter list.

A similar solution
is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts,
etc;
pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the
library proper; source files that
 are not part of the library, such as cjpeg.c
and djpeg.c, do not begin with "j". Keep source file names to eight
characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
compression and decompression code in separate source files --- some
applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the
modules that are used in cjpeg/djpeg but are not part of the JPEG library
proper. Those modules are not really intended to be used in other
applications.

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/coderules.txt
No license file was found, but licenses were detected in source scan.

/* Copyright (C) 1989, 2000 Aladdin Enterprises. All rights reserved. */
/*
ansi2knr is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY. No author or distributor accepts responsibility to anyone for the
consequences of using it or for whether it serves any particular purpose or
works at all, unless he says so in writing. Refer to the GNU General Public
License (the "GPL") for full details.

Everyone is granted permission to copy, modify and redistribute ansi2knr,
but only under the conditions described in the GPL. A copy of this license
is supposed to have been given to you along with ansi2knr so you can know
your rights and responsibilities. It should be in a file named COPYLEFT,
or, if there is no file named COPYLEFT, a file named COPYING. Among other
things, the copyright notice and this notice must be preserved on all
copies.

We explicitly state here what we believe is already implied
 by the GPL: if
the ansi2knr program is distributed as a separate set of sources and a
separate executable file which are aggregated on a storage medium together
with another program, this in itself does not bring the other program under
the GPL, nor does the mere fact that such a program or the procedures for
constructing it invoke the ansi2knr executable bring any other part of the
program under the GPL.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/ansi2knr.c
No license file was found, but licenses were detected in source scan.

/*

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcprepct.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdarith.c
No license file was found, but licenses were detected in source scan.

```
/*
* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
```

*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the
 first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/cjpeg.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also

* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jpegtran.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color

* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed

* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y   + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates
 half or three-quarters of the
* multiplications needed for color conversion.
*

* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/wrbmp.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
==

README for release 8c of 16-Jan-2011
====================================

This distribution contains the eighth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

Other documentation files in the distribution are:

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

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although

some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes,
and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

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

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

LEGAL ISSUES
============

In plain English:

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

In legalese:

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

This software is copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes
 to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

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

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

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

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
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,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

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

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

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
 Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications
 of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/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 currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).
Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

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. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.
A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/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 http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
==========

The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived as
http://www.ijg.org/files/jpegsrc.v8c.tar.gz, and in Windows-compatible
"zip" archive format as http://www.ijg.org/files/jpegsr8c.zip.

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

ACKNOWLEDGMENTS
==========

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

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

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

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

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Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel
for corresponding business development.

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

configuration tests.

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

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

Last but not least special thank to Thomas G. Lane for the original
design and development of this singular software package.

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

The ISO JPEG standards committee actually promotes different formats like
"JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based
JPEG and which are based on faulty technologies. IJG therefore does not
and will not support such momentary mistakes (see REFERENCES).
We have little or no sympathy for the promotion of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing
JPEG
image files indefinitely.)

TO DO
=====

Version 8 is the first release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@uc.ag.

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/README
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modification developed 2003-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
*   C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
*   Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
*   Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies
 and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
*
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
*
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers
 (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.

*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed
 BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
* (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jaricom.c

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

```
/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume input from
* an ordinary stdio stream.  They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of
 this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation.  This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdppm.c
No license file was found, but licenses were detected in source scan.

```
/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
```

* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are
 much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However,
 that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jidctflt.c
No license file was found, but licenses were detected in source scan.

```
/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do.  Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jerror.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemnobs.c

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

```
/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch.  It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
*   GIF: the contents of the GIF's global colormap are used.
*   PPM (either text or raw flavor): the entire file is read and
*      each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color.  Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
 */
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation.  This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/rdcolmap.c

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

```
/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
```

```
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free.  It accurately determines the amount of
* memory available by using CompactMem.  Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available().  The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images
 are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7.  (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls.  You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*     FSpDelete     ->  HDelete
*     FSpGetFInfo   ->  HGetFInfo
*     FSpCreate     ->  HCreate
*     FSpOpenDF     ->  HOpen
  *** Note: not HOpenDF ***
*     FSMakeFSSpec  ->  (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF.  HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs.  HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemmac.c
```

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

```
/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/wrtarga.c
No license file was found, but licenses were detected in source scan.

```
/*
* transupp.h
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application.  These are
* NOT part of the core JPEG library.  But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files.  See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/transupp.h
No license file was found, but licenses were detected in source scan.

```
/*
* jpegint.h
*
```

* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jquant1.c
No license file was found, but licenses were detected in source scan.

```
/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
*************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                  *
*************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991.  That file
 contains the following copyright notice:
*    Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
*    Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
*    Copyright (C) 1989 by Jef Poskanzer.
*    Permission to use, copy, modify, and distribute this software and its
*    documentation for any purpose and without fee is hereby granted, provided
*    that the above copyright notice appear in all copies and that both that
*    copyright notice and this permission notice appear in supporting
*    documentation.  This software is provided "as is" without express or
*    implied warranty.
*
* We are also required to state that
*    "The Graphics Interchange Format(c) is the Copyright property of
*    CompuServe Incorporated. GIF(sm) is a Service Mark property of
*    CompuServe Incorporated."
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/wrgif.c
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/*
* jdmarker.c
*
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* Modified 2009 by Guido Vollbeding.
```

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdmarker.c
No license file was found, but licenses were detected in source scan.

```
/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager.  This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jmemansi.c
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```
/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications.  These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/
```

Found in path(s):

* /jpeg-8c-zip/jpeg-8c/cderror.h
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```
/*
* jdatasrc.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage.  If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdatasrc.c
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```
/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups".  A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally.  The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request
 "context rows" by setting need_context_rows
* during startup.  In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
```

```
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*   Digital Image Warping, George Wolberg, 1990.
*   Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel.  The hi-falutin sampling literature
* refers to this as a "box filter".  In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad.  If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing
 capability is provided.  This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol).  When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors.  P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcsample.c
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```
/*
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
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*
* This file contains application interface routines that are used for both
* compression and decompression.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcomapi.c
No license file was found, but licenses were detected in source scan.

```
/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
```

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jversion.h
*
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*
* This file contains software version identification.
*/

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

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdatadst.c
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```
/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                     *
*************************************************************************
*
* We are required to state that
*    "The Graphics Interchange Format(c) is the Copyright property of
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*    CompuServe Incorporated."
*/
```

Found in path(s):
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```
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* wrppm.c
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*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*/
```

Found in path(s):

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```
/*
* jdmainct.c
*
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*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdmainct.c
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```
/*
* jdhuff.c
*
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*
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU.  To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/
```

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jdhuff.c
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```
/*
* jcmarker.c
*
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```

* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
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*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /jpeg-8c-zip/jpeg-8c/jcmarker.c

1.54 openssl 1.0.2l

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1.55 dropbear 2016.74

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It was downloaded from http://matt.ucc.asn.au/dropbear/

Upstream Author: Matt Johnston <matt@ucc.asn.au>

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=====

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can be used freely for any purpose. Any derived versions of this
software must be clearly marked as such, and if the derived work is
incompatible with the protocol description in the RFC file, it must be
called by a name other
than "ssh" or "Secure Shell". "

=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
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loginrec is written primarily by Andre Lucas, atomicio.c by Theo de Raadt.

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=====

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=====

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*
* curve25519-donna: Curve25519 elliptic curve, public key function
*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

1.56 json-simple 1.1.1

1.56.1 Available under license :

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Version 2.0, January 2004

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/*
* A "png_get_copyright" function is available, for convenient use in "about"
* boxes and the like:
*
*     printf("%s", png_get_copyright(NULL));
*
* Also, the PNG logo (in PNG format, of course) is supplied in
 the
* files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).
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* possible without all of you.
*
* Thanks to Frank J. T. Wojcik for helping with the documentation.
*/

/*
* Y2K compliance in libpng:
* =========================
*
*    December 22, 2014
*
*    Since the PNG Development group is an ad-hoc body, we can't make
*    an official declaration.
*
*    This is your unofficial assurance that libpng from version 0.71 and
*    upward through 1.6.16 are Y2K compliant.  It is my belief that
*    earlier versions were also Y2K compliant.
*
*    Libpng only has two year fields.  One is a 2-byte unsigned integer
*    that will hold years up to 65535.  The other, which is deprecated,
*
 holds the date in text format, and will hold years up to 9999.
*
*    The integer is
*        "png_uint_16 year" in png_time_struct.
*
*    The string is
*        "char time_buffer[29]" in png_struct.  This is no longer used
*    in libpng-1.6.x and will be removed from libpng-1.7.0.
*
*    There are seven time-related functions:
*        png.c: png_convert_to_rfc_1123_buffer() in png.c
*          (formerly png_convert_to_rfc_1123() prior to libpng-1.5.x and
*          png_convert_to_rfc_1152() in error prior to libpng-0.98)
*        png_convert_from_struct_tm() in pngwrite.c, called in pngwrite.c
*        png_convert_from_time_t() in pngwrite.c
*        png_get_tIME() in pngget.c
*        png_handle_tIME() in pngrutil.c, called in pngread.c
*        png_set_tIME() in pngset.c
*        png_write_tIME() in pngwutil.c, called in pngwrite.c
*
*    All handle dates properly in a Y2K environment.  The
*    png_convert_from_time_t() function calls gmtime() to convert from
 system
*    clock time, which returns (year - 1900), which we properly convert to
*    the full 4-digit year.  There is a possibility that libpng applications
```

*   are not passing 4-digit years into the png_convert_to_rfc_1123_buffer()
*   function, or that they are incorrectly passing only a 2-digit year
*   instead of "year - 1900" into the png_convert_from_struct_tm() function,
*   but this is not under our control. The libpng documentation has always
*   stated that it works with 4-digit years, and the APIs have been
*   documented as such.
*
*   The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned
*   integer to hold the year, and can hold years as large as 65535.
*
*   zlib, upon which libpng depends, is also Y2K compliant. It contains
*   no date-related code.
*
*   Glenn Randers-Pehrson
*   libpng maintainer
*   PNG Development Group
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#
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/ftrandom/ftrandom.c
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*
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* and affix
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* http://www.cs.ucla.edu/ficus-members/geoff/ispell.html
* (the home page for ispell)

*
* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.
*
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
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modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/isac/main/source/fft.c
modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h
modules/audio_processing/aec/aec_rdft.c
system_wrappers/source/condition_variable_event_win.cc
system_wrappers/source/set_thread_name_win.h
system_wrappers/source/spreadsortlib/constants.hpp
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* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message -----
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.

* Thanks.
* Kevin
*/

Files:
modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g711.h - In line A-law and u-law conversion routines
*
* Written by Steve Underwood <steveu@coppice.org>
*
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*
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* public domain for the benefit of all mankind - even the slimy
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* detriment.
*/

Files:
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c

License:
/*
 * SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
* Written by Steve Underwood <steveu@coppice.org>
*
* Copyright (C) 2005 Steve Underwood
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* Despite my general liking of the GPL, I place my own contributions
* to this code in the public domain for the benefit of all mankind -
* even the slimy ones who might try to proprietize my work and use it
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*
* Based in part on a single channel G.722 codec which is:
*
* Copyright (c) CMU 1993
* Computer Science, Speech Group

* Chengxiang Lu and Alex Hauptmann
*/

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* should make their way back to the general Internet community so
* that everyone benefits.
*/

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modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:
/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
* This program uses the PortAudio Portable Audio Library.

```
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*/

/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
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* single-thread writer.
*
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Source:
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  \section1 LGPL version 3
  \snippet snippets/code/doc_src_lgpl3.qdoc LGPL v3

  \section1 LGPL version 2.1
```

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version 1.1

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that any
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Samba temporary memory allocation functions

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printf("%s", png_get_copyright(NULL));
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**
**/

/*!
\page android_runtime_licensing_notes.html
\title Android GNU C++ Run-time Licensing
\ingroup licensing
\brief Provides additional information about the licensing of run-time dependencies of Qt for Android

The Android platform does not provide a full implementation of the C++ run-time. Instead,
apps that depend on features such as STL, exceptions, or RTTI, must include an additional
native run-time library that provides the features they need.

Qt will by default use the GNU libstdc++ library which is distributed as part of the Google Android NDK.
Qt Creator will copy this library into the .APK for any Qt-based Android app. The library will then be
loaded by the app on start-up to meet the run-time requirements of Qt.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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*/

```
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'''
Updates all copyright headers within our code:
- For files that already have a copyright header, the header is modified
 while keeping the year and holder intact.
- For files that don't have a copyright header, we add one with the current
 year and default holder.

@author: epoger@google.com
'''

import os
import sys

import fileparser

# Only modify copyright stanzas if the copyright holder is one of these.
ALLOWED_COPYRIGHT_HOLDERS = [
  'Google Inc.',
  'Skia',
  'The Android Open Source Project',
]

def Main(root_directory):
  """Run everything.

  @param root_directory root directory within which to modify all files
  """
  filepaths = GetAllFilepaths(root_directory)
  for filepath in filepaths:
    parser = fileparser.CreateParser(filepath)
    if not parser:
      ReportWarning('cannot find a parser for file %s,
 skipping...' %
                    filepath)
      continue
    old_file_contents = ReadFileIntoString(filepath)
    comment_blocks = parser.FindAllCommentBlocks(old_file_contents)
    if not comment_blocks:
      ReportWarning('cannot find any comment blocks in file %s' %
                    filepath)
    old_copyright_block = parser.FindCopyrightBlock(comment_blocks)
```

```
      if not old_copyright_block:
        ReportWarning('cannot find copyright block in file %s' % filepath)
      (year, holder) = parser.GetCopyrightBlockAttributes(old_copyright_block)
      if holder and not ConfirmAllowedCopyrightHolder(holder):
        ReportWarning(
          'unrecognized copyright holder "%s" in file %s, skipping...' % (
            holder, filepath))
        continue
      new_copyright_block = parser.CreateCopyrightBlock(year, holder)
      if old_copyright_block:
        new_file_contents = old_file_contents.replace(
            old_copyright_block, new_copyright_block, 1)
      else:
        new_file_contents = new_copyright_block + old_file_contents
      WriteStringToFile(new_file_contents, filepath)

def GetAllFilepaths(root_directory):
  """Return a list of all files (absolute path for each one) within a tree.

  @param root_directory root directory within which to find all files
  """
  path_list = []
  for dirpath, dirnames, filenames in os.walk(root_directory):
    for filename in filenames:
      path_list.append(os.path.abspath(os.path.join(dirpath, filename)))
  return path_list

def ReportWarning(text):
  """Report a warning, but continue.
  """
  print 'warning: %s' % text

def ReportError(text):
  """Report an error and raise an exception.
  """
  raise IOError(text)

def ReadFileIntoString(filepath):
  """Returns the full contents of this file as a string.
  """
  with open(filepath, 'r') as file_handle:
    contents = file_handle.read()
   return contents

def WriteStringToFile(string, filepath):
  """Writes this string out to filepath, replacing the file if it already
  exists.
  """
```

```
  with open(filepath, 'w') as file_handle:
    file_handle.write(string)

def ConfirmAllowedCopyrightHolder(holder):
  """Returns True if this is one of our allowed copyright holders.

  @param holder copyright holder as a string
  """
  return holder in ALLOWED_COPYRIGHT_HOLDERS


Main(sys.argv[1])
```

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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"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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(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
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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. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

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THE BASIC LIBRARY FUNCTIONS

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End
#FFmpeg:

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimizations in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
 - `libavfilter/x86/vf_removegrain.asm`
- libutvideo encoding/decoding wrappers in
 `libavcodec/libutvideo*.cpp`
- the X11 grabber in `libavdevice/x11grab.c`
- the swresample test app in
 `libswresample/swresample-test.c`
- the `texi2pod.pl` tool
-
 the following filters in libavfilter:
  - `f_ebur128.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerndeint.c`
  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_sab.c`
  - `vf_smartblur.c`

- `vf_repeatfields.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

external libraries
==========

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That
license is incompatible with the LGPL v2.1 and the GPL v2, but not with
version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version needs to be upgraded by passing `--enable-version3` to configure.

incompatible libraries

The Fraunhofer AAC library, FAAC and aacplus are under licenses which
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\li Opensource project to map OpenGL ES API calls to DirectX API. \li BSD-style \li
\l {Qt for Windows}
\row \li \l {Native Style for Android} \li \li Apache License 2.0 \li \l {Qt for Android}
\row \li \li \li \li

\row \li {1,4} Qt Location

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Poly2Tri}
\li Poly2Tri is a sweepline constrained Delaunay Polygon Triangulation Library. \li BSD-style \li
\row \li \li \li \li

\row \li {1,4} Qt Bluetooth

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{BlueZ}{BlueZ}
\li BlueZ is a Bluetooth stack for Linux based operating systems
\li GPL v2
\li Used by sdpscanner tool which is called by \l {Qt Bluetooth} on BlueZ 5 systems.
Qt applications do \e not link to GPL code.
\row \li \li \li \li

\row \li {1,4} Qt Multimedia

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{FFTReal version 2.11}{FFTReal}
\li Fast Fourier transform of real-valued arrays. \li LGPL \li (Used in example code).
\row \li \li \li \li

\row \li {1,6} Qt Canvas 3D
\row \li \l{GNU Lesser General Public License (LGPL)} version 3 \li \li LGPL v3 \li
\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Three.js Loader}
\li A parser for loading 3D models from JSON data structures.
\li MIT \li (Used in example code).
\row \li \l{gl-matrix.js version 2.2.2}{gl-matrix.js}
\li High performance matrix and vector operations
\li MIT \li (Used in example code).
\row \li \li \li \li

\row \li {1,4} Qt SVG

\row \li \l{Qt SVG License Information}
\li Parts of code for arc handling in Qt SVG module. \li BSD-style \li Depends on Qt Gui, Qt Widgets
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,6} Qt Script
\li \li \li \li (Provided for Qt 4 compatibility)

\row \li \l{V8 benchmark tests}
\li V8 benchmark tests used in Qt Script. \li BSD-style \li
\row \li \l{Sunspider benchmark tests}
\li Sunspider benchmark
tests used in Qt Script. \li BSD-style \li

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\li \li LGPL v2 \li
\row \li \li \li \li

\row \li {1,8} Qt Test

\row \li \l{Other Licenses Used in Qt#Testlib}{Testlib}
\li Parts of implementation of Qt Test library. \li BSD, MIT \li

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Valgrind}
\li A code analysis tool for detecting memory leaks. \li GPL v2 \li
\row \li \l {valgrind.h specific license}
\li \li BSD-style \li
\row \li \l{Callgrind}
\li A performance profiling tool. \li GPL v2 \li
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,4} Qt Print Support
\li \li \li \li Depends on Qt Gui and Qt Widgets

\row \li \l{Notes about PDF Licensing}{PDF Licensing}
\li Notes about PDF Licensing. \li \li
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,4} Qt Wayland

\row \li
\l {Wayland Protocol} \li \li MIT \li
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,4} Qt WebEngine

\row \li \l[QtWebEngineCore]{Qt WebEngine Core}
\li \li LGPL v3 or\br GPL v2 + Qt commercial license \li
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,6} Qt WebKit

\row \li \l{WebKit used by the QtWebKit module}
\li Parts of WebKit used by the QtWebKit module \li BSD-style \li Depends on Qt Gui, Qt Network, Qt SQL, Qt QML, and Qt Quick

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{WebCore (WebKit)}{WebCore}
\li A layout, rendering, and Document Object Model (DOM) library for HTML and SVG. \li LGPL, MIT, BSD-style \li
\row \li \li \li \li

\row \li \li \li \li

\row \li {1,4} Qt Designer

\row \li \l{Qt Designer License Information}
\li Implementation of the recursive shadow casting algorithm in Qt Designer. \li BSD (MIT) \li
\row \li \li \li \li
\row \li \li \li
\li

\row \li {1,4} Qt Creator

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Botan version 1.8.8}{Botan}
\li A C++ crypto library used in Qt Creator. \li BSD \li
\row \li \li \li \li

\row \li {1,6} Qt Image Formats

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{JasPer (libjasper) version 2.0}{JasPer}
\li A collection of software for the coding and manipulation of images. \li BSD-style \li
\row \li \l{TIFF Software Distribution (libtiff) version 3.9.2}{TIFF}
\li libtiff is a set of C functions (a library) that support the manipulation of TIFF image files. \li BSD \li
\row \li \l{MNG Library (libmng) version 1.0.10}{MNG}
\li Support decoding and displaying of MNG format image files. \li BSD-style \li
\row \li \l{WebP (libwebp) version 0.4.3}{WebP}
\li Support decoding and displaying of WebP format image files. \li BSD-style \li
\row \li \li \li \li
\row \li \li \li \li

\row \li
{1,4} Qt SQL

\row \li \l{SQLite (sqlite) version 3.8.5.0}{SQLite}
\li A C library that implements a self-contained, embeddable, zero-configuration SQL database engine. \li BSD-style \li
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,4} Qt XML Patterns

\row \li \l {Bison Parser 2.3a}{Bison Parser}
\li Bison is a parser generator. \li GPL with exception \li Depends on Qt Network
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,10} Plugins

\row \li \l{JPEG Software (libjpeg) version 8c}{JPEG}
\li C software to implement JPEG image compression and decompression. \li BSD-style \li
\row \li \l{IAccessible2 IDL Specification}{IAccessible2}
\li An accessibility API for Microsoft Windows applications. \li BSD \li \l {Qt for Windows}
\row \li \l{Cycle}
\li A CPU tick counter. \li MIT \li
\row \li \l{callgrind.h specific license}
\li \li BSD-style \li
\row \li \l{Third-Party
Licenses Used in Qt#xcb}{xcb}
\li A C language binding for the X Window System. \li BSD-style \li \l {Qt for Linux/X11}
\row \li \l{at-spi and at-spi2}
\li A toolkit-neutral way of providing accessibility facilities in application. \li LGPL \li \l {Qt for Linux/X11}
\row \li \l{Third-Party Licenses Used in Qt#xkbcommon}{xkbcommon}
\li Keymap handling library for toolkits and window systems. \li BSD-style \li \l {Qt for Linux/X11}
\row \li \li \li \li
\row \li \li \li \li

\row \li {1,3} Qt Tools

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Clucene Core Library}
\li A high-performance, full-featured text search engine written in C++. \li LGPL/Apache \li

\row \li {1,6} Qt Virtual Keyboard

\row \li {4,1} \b{Third-party Licenses}
\row \li \l{Lipi Toolkit (LipiTk)}{Lipi Toolkit}
\li An open source toolkit for online Handwriting Recognition (HWR).
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\l{OpenWnn}
\li A Japanese IME
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\li An IME for Standard Chinese input.
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\row \li \l{Traditional Chinese IME (tcime)}{tcime}
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\row \li {1,6} Qt Quick 2D Renderer

\row \li {4,1} \b{Third-party Licenses}

```
    \row \li \l{EGL 1.5 Headers}
        \li These headers are based on EGL 1.5 specification.
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        \li These headers are based on OpenGL ES 2.0 specification.
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    \row \li {1,6} Qt Qml

    \row \li {4,1} \b{Third-party
   Licenses}
    \row \li \l{JavaScriptCore Macro Assembler}
        \li The assembly code generated use by the JIT.
        \li BSD-style \li
    \row \li \l{V8 double/string conversion library}
        \li String conversion routines for IEEE doubles.
        \li BSD-style \li
    \row \li \li \li \li
    \row \li \li \li \li

    \endtable
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\list
    \li \c {src/3rdparty/android/extract.h}
\endlist

\section1 QSegfaultHandler Class

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\list
\li Parts of the QSegfaultHandler class in
    \c {qtbase/src/corelib/kernel/qcrashhandler.cpp}.

\endlist

\section1 Anti-aliasing rasterizer from FreeType 2

Parts of the FreeType project have been modified and put into Qt
for use in the painting subsystem. These files are ftraster.h,
ftraster.c, ftgrays.h and ftgrays.c. The following modifications
has been made to these files:

\list
\li Renamed FT_ and ft_ symbols to QT_FT_ and qt_ft_ to avoid name
conflicts in \c{qrasterdefs_p.h}.
\li Removed parts of code not relevant when compiled with
STANDALONE defined.
\li Changed behavior in \c{ftraster.c} to follow X polygon filling
rules.
\li Implemented support in \c{ftraster.c} for winding / odd even
polygon fill rules.
\li Replaced bitmap generation with span generation in \c{ftraster.c}.
\li Renamed \c{ftgrays.h} as \c{qgrayraster_p.h}.
\li Renamed \c{ftgrays.c} as \c{qgrayraster.c}.
\li Renamed \c{ftimage.h} as \c{qrasterdefs_p.h}.
\endlist

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The gzip module uses the zlib license (see src/gzip/zlib.h) which too is
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The MD5 checksum support (only used for debugging in development builds)
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\section1 QUrl::fromUserInput

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\list
\li qtbase/src/corelib/io/qurl.cpp
\endlist

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\section1 Testlib

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\list
\li valgrind_p.h in qtbase/src/testlib/3rdparty
\endlist

\hr

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\list
\li cycle_p.h in qtbase/src/testlib/3rdparty
\endlist

\hr

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\list
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\list
\li ANGLE library in qtbase/src/3rdparty/angle
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\list
\li Included in \c{util/unicode/data},
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\c{tests/auto/qchar}
\li Parts of the \l makeqpf tool
\endlist

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\list
\li qtbase/src/corelib/Qt5CoreMacros.cmake
\li qtbase/src/dbus/Qt5DBusMacros.cmake

\li qtbase/src/widgets/Qt5WidgetsMacros.cmake
\li qttools/src/linguist/Qt5LinguistToolsMacros.cmake
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\list
\li \c{tests/benchmarks/script/v8/tests/richards.js}
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\list
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   \c{tests/benchmarks/script/sunspider/tests/3d-raytrace.js},
   \c{tests/benchmarks/script/sunspider/tests/bitops-bitwise-and.js} and
   \c{tests/benchmarks/script/sunspider/tests/string-tagcloud.js}
\endlist

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\list
\li \c{benchmarks/script/sunspider/tests/math-cordic.js}
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index 853a985..f3da03e 100644

```
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+++ b/third_party/ply/__init__.py
@@ -1,4 +1,36 @@
# PLY package
# Author: David Beazley (dave@dabeaz.com)
+# --------------------------------------------------------------------------
+# ply: yacc.py
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CVC's SMT-LIB Parser
\file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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import json
import os
import sys

```
import common


def main_run(args):
 with common.temporary_file() as tempfile_path:
  rc = common.run_command([
      os.path.join(common.SRC_DIR, 'android_webview', 'tools',
                   'webview_licenses.py'),
      'scan',
      '--json', tempfile_path
  ])

  with open(tempfile_path) as f:
    results = json.load(f)

 json.dump({
    'valid': True,
    'failures': results,
 }, args.output)

 return rc


def main_compile_targets(args):
 json.dump([], args.output)


if __name__ == '__main__':
 funcs = {
   'run': main_run,
   'compile_targets': main_compile_targets,
 }
 sys.exit(common.run_script(sys.argv[1:], funcs))
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing
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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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*
* AUTHORS: Vijay Ganesh
*
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**/

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numbered 2 because it goes with version 2 of the ordinary GPL.]

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```
/*****************************************************************************
* PROGRAM NAME: STP (Simple Theorem Prover)
*
```

* AUTHORS: Vijay Ganesh
*
* BEGIN DATE: November, 2005
**********/

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CVC's SMT-LIB
Parser
\file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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FFmpeg.

Some optional parts of FFmpeg are licensed under the GNU General Public License
version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details. None of
these parts are used by default, you have to explicitly pass `--enable-gpl` to
configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimizations in the files
- `libavcodec/x86/flac_dsp_gpl.asm`

- `libavcodec/x86/idct_mmx.c`
- libutvideo encoding/decoding wrappers in
`libavcodec/libutvideo*.cpp`
- the X11 grabber in `libavdevice/x11grab.c`
- the swresample test app in
`libswresample/swresample-test.c`
- the `texi2pod.pl` tool
- the following filters in libavfilter:

  - `f_ebur128.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerndeint.c`
  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_sab.c`
  - `vf_smartblur.c`
  - `vf_repeatfields.c`
  - `vf_spp.c`
  - `vf_stereo3d.c`
  - `vf_super2xsai.c`
  - `vf_tinterlace.c`
  - `vf_uspp.c`
  - `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful

of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and
`libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for
licensing details. Specifically note that you must credit the IJG in the
documentation accompanying your program if you only distribute executables.
You must also indicate any changes including additions and deletions to
those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

external libraries
==========

FFmpeg can be combined with a number of external libraries, which sometimes
affect the licensing of binaries resulting from the combination.

compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing `--enable-gpl` to configure.

The OpenCORE
and VisualOn libraries are under the Apache License 2.0. That
license is incompatible with the LGPL v2.1 and the GPL v2, but not with
version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version needs to be upgraded by passing `--enable-version3` to configure.

incompatible libraries

The Fraunhofer AAC library, FAAC and aacplus are under licenses which
are incompatible with the GPLv2 and v3. We do not know for certain if their
licenses are compatible with the LGPL.
If you wish to enable these libraries, pass `--enable-nonfree` to configure.
But note that if you enable any of these libraries the resulting binary will
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may result in additional obligations. It is possible that these
restrictions cause the resulting binary to be unredistributeable.

==========
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VP8 ARMv6 optimisations

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Floating point AAN DCT

this implementation is based upon the IJG integer AAN DCT (see jfdctfst.c)

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/* ************************************************************************** */
/* *                                                                        * */
/* * Parts of this software have been adapted from the libpng package.      * */
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/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                                        * */
/* * This library's function
```

is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* * * */
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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 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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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
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refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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and can be reasonably considered independent and separate works in
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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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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
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enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.

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Vladimir Kliatchko vladimir at kliatchko dot com
    reimplemented pthread_once with the same form
    as described by A.Terekhov (later version 2);

implementation of MCS (Mellor-Crummey/Scott) locks.

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  jloup@gzip.org          madler@alumni.caltech.edu


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'''

import datetime
import re

```
def CreateParser(filepath):
  """Returns a Parser as appropriate for the file at this filepath.
  """
  if (filepath.endswith('.cpp') or
      filepath.endswith('.h') or
      filepath.endswith('.c')):
      return CParser()
  else:
      return None


class Parser(object):
  """Base class for all language-specific parsers.
  """

  def __init__(self):
      self._copyright_pattern = re.compile('copyright', re.IGNORECASE)
      self._attribute_pattern = re.compile(
          'copyright.*\D(\d{4})\W*(\w.*[\w.])', re.IGNORECASE)

  def FindCopyrightBlock(self, comment_blocks):
      """Given a list of comment block strings, return the one that seems
      like the most likely copyright block.

      Returns None if comment_blocks was empty, or if we couldn't find
      a comment block that contains
 copyright info."""
      if not comment_blocks:
          return None
      for block in comment_blocks:
          if self._copyright_pattern.search(block):
              return block

  def GetCopyrightBlockAttributes(self, comment_block):
      """Given a comment block, return a tuple of attributes: (year, holder).

      If comment_block is None, or none of the attributes are found,
      this will return (None, None)."""
      if not comment_block:
          return (None, None)
      matches = self._attribute_pattern.findall(comment_block)
      if not matches:
          return (None, None)
      first_match = matches[0]
      return (first_match[0], first_match[1])


class CParser(Parser):
```

```
  """Parser that knows how to parse C/C++ files.
  """

  DEFAULT_YEAR = datetime.date.today().year
  DEFAULT_HOLDER = 'Google Inc.'
  COPYRIGHT_BLOCK_FORMAT = '''
/*
* Copyright %s %s
*
* Use of this source code is governed by a BSD-style license
 that can be
* found in the LICENSE file.
*/
'''

  def __init__(self):
    super(CParser, self).__init__()
    self._comment_pattern = re.compile('/\*.*?\*/', re.DOTALL)

  def FindAllCommentBlocks(self, file_contents):
    """Returns a list of all comment blocks within these file contents.
    """
    return self._comment_pattern.findall(file_contents)

  def CreateCopyrightBlock(self, year, holder):
    """Returns a copyright block suitable for this language, with the
    given attributes.

    @param year year in which to hold copyright (defaults to DEFAULT_YEAR)
    @param holder holder of copyright (defaults to DEFAULT_HOLDER)
    """
    if not year:
      year = self.DEFAULT_YEAR
    if not holder:
      holder = self.DEFAULT_HOLDER
    return self.COPYRIGHT_BLOCK_FORMAT % (year, holder)
<!--
```

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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.]

Preamble

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That's all there is to it!
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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SHAREDLIBSUFFIX = so
SHAREDLIBSUFFIXVER=$(SHAREDLIBSUFFIX).$(SHAREDLIBVERSION)
SHLDFLAGS = -Wl,-soname,$(LIBPREFIX)$(PROJECT_NAME).$(SHAREDLIBSUFFIXVER)
CFLAGS += -fPIC
LDFLAGS += -lpthread
ifeq ($(ASM_ARCH), x86)
ifeq ($(ARCH), x86_64)
ASMFLAGS += -f elf64
else
ASMFLAGS += -f elf
endif
endif
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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.

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
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modification of the work for the customer's own use and reverse
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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) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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c) If distribution of the work is made by offering access to
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d) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,

the 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.

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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.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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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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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#!/usr/bin/env python
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"""Utility for checking and processing licensing information in third_party
directories.

Usage: licenses.py <command>

Commands:
scan scan third_party directories, verifying that we have licensing info
credits generate about:credits on stdout

(You can also import this as a module.)
"""

import argparse
import cgi
import os
import sys

# Paths from the root of the tree to directories to skip.
PRUNE_PATHS = set([
# Same module occurs in crypto/third_party/nss and net/third_party/nss, so
# skip this one.

```
os.path.join('third_party','nss'),

# Placeholder directory only, not third-party code.
os.path.join('third_party','adobe'),

# Apache 2.0 license. See crbug.com/140478
os.path.join('third_party','bidichecker'),

# Build files only, not third-party code.
os.path.join('third_party','widevine'),

 # Only binaries, used during development.
os.path.join('third_party','valgrind'),

# Used for development and test, not in the shipping product.
os.path.join('build','secondary'),
os.path.join('third_party','bison'),
os.path.join('third_party','blanketjs'),
os.path.join('third_party','cygwin'),
os.path.join('third_party','gles2_conform'),
os.path.join('third_party','gnu_binutils'),
os.path.join('third_party','gold'),
os.path.join('third_party','gperf'),
os.path.join('third_party','kasko'),
os.path.join('third_party','lighttpd'),
os.path.join('third_party','llvm'),
os.path.join('third_party','llvm-build'),
os.path.join('third_party','mingw-w64'),
os.path.join('third_party','nacl_sdk_binaries'),
os.path.join('third_party','pefile'),
os.path.join('third_party','perl'),
os.path.join('third_party','psyco_win32'),
os.path.join('third_party','pylib'),
os.path.join('third_party','pywebsocket'),
 os.path.join('third_party','qunit'),
os.path.join('third_party','sinonjs'),
os.path.join('third_party','syzygy'),
os.path.join('tools', 'profile_chrome', 'third_party'),

# Chromium code in third_party.
os.path.join('third_party','fuzzymatch'),
os.path.join('tools', 'swarming_client'),

# Stuff pulled in from chrome-internal for official builds/tools.
os.path.join('third_party', 'clear_cache'),
os.path.join('third_party', 'gnu'),
os.path.join('third_party', 'googlemac'),
os.path.join('third_party', 'pcre'),
```

```
  os.path.join('third_party', 'psutils'),
  os.path.join('third_party', 'sawbuck'),
  # See crbug.com/350472
  os.path.join('chrome', 'browser', 'resources', 'chromeos', 'quickoffice'),
  # Chrome for Android proprietary code.
  os.path.join('clank'),

  # Redistribution does not require attribution in documentation.
  os.path.join('third_party','directxsdk'),
  os.path.join('third_party','platformsdk_win2008_6_1'),
   os.path.join('third_party','platformsdk_win7'),

  # For testing only, presents on some bots.
  os.path.join('isolate_deps_dir'),

  # Overrides some WebRTC files, same license. Skip this one.
  os.path.join('third_party', 'webrtc_overrides'),
])

# Directories we don't scan through.
VCS_METADATA_DIRS = ('.svn', '.git')
PRUNE_DIRS = (VCS_METADATA_DIRS +
              ('out', 'Debug', 'Release',  # build files
               'layout_tests'))            # lots of subdirs

ADDITIONAL_PATHS = (
  os.path.join('breakpad'),
  os.path.join('chrome', 'common', 'extensions', 'docs', 'examples'),
  os.path.join('chrome', 'test', 'chromeos', 'autotest'),
  os.path.join('chrome', 'test', 'data'),
  os.path.join('native_client'),
  os.path.join('net', 'tools', 'spdyshark'),
  os.path.join('sdch', 'open-vcdiff'),
  os.path.join('testing', 'gmock'),
  os.path.join('testing', 'gtest'),
  os.path.join('tools', 'gyp'),
  os.path.join('tools', 'page_cycler',
 'acid3'),
  os.path.join('url', 'third_party', 'mozilla'),
  os.path.join('v8'),
  # Fake directories to include the strongtalk and fdlibm licenses.
  os.path.join('v8', 'strongtalk'),
  os.path.join('v8', 'fdlibm'),
)



# Directories where we check out directly from upstream, and therefore
# can't provide a README.chromium.  Please prefer a README.chromium
```

```
# wherever possible.
SPECIAL_CASES = {
  os.path.join('native_client'): {
     "Name": "native client",
     "URL": "http://code.google.com/p/nativeclient",
     "License": "BSD",
  },
  os.path.join('sdch', 'open-vcdiff'): {
     "Name": "open-vcdiff",
     "URL": "https://github.com/google/open-vcdiff",
     "License": "Apache 2.0, MIT, GPL v2 and custom licenses",
     "License Android Compatible": "yes",
  },
  os.path.join('testing', 'gmock'): {
     "Name": "gmock",
     "URL": "http://code.google.com/p/googlemock",
     "License": "BSD",
     "License File": "NOT_SHIPPED",
   },
  os.path.join('testing', 'gtest'): {
     "Name": "gtest",
     "URL": "http://code.google.com/p/googletest",
     "License": "BSD",
     "License File": "NOT_SHIPPED",
  },
  os.path.join('third_party', 'angle'): {
     "Name": "Almost Native Graphics Layer Engine",
     "URL": "http://code.google.com/p/angleproject/",
     "License": "BSD",
  },
  os.path.join('third_party', 'cros_system_api'): {
     "Name": "Chromium OS system API",
     "URL": "http://www.chromium.org/chromium-os",
     "License": "BSD",
     # Absolute path here is resolved as relative to the source root.
     "License File": "/LICENSE.chromium_os",
  },
  os.path.join('third_party', 'lss'): {
     "Name": "linux-syscall-support",
     "URL": "http://code.google.com/p/linux-syscall-support/",
     "License": "BSD",
     "License File": "/LICENSE",
  },
  os.path.join('third_party', 'pdfium'): {
     "Name": "PDFium",

 "URL": "http://code.google.com/p/pdfium/",
     "License": "BSD",
```

```
},
os.path.join('third_party', 'pdfsqueeze'): {
   "Name": "pdfsqueeze",
   "URL": "http://code.google.com/p/pdfsqueeze/",
   "License": "Apache 2.0",
   "License File": "COPYING",
},
os.path.join('third_party', 'ppapi'): {
   "Name": "ppapi",
   "URL": "http://code.google.com/p/ppapi/",
},
os.path.join('third_party', 'scons-2.0.1'): {
   "Name": "scons-2.0.1",
   "URL": "http://www.scons.org",
   "License": "MIT",
   "License File": "NOT_SHIPPED",
},
os.path.join('third_party', 'catapult'): {
   "Name": "catapult",
   "URL": "https://github.com/catapult-project/catapult",
   "License": "BSD",
   "License File": "NOT_SHIPPED",
},
os.path.join('third_party', 'v8-i18n'): {
   "Name": "Internationalization Library for v8",
   "URL": "http://code.google.com/p/v8-i18n/",
   "License": "Apache 2.0",
 },
os.path.join('third_party', 'WebKit'): {
   "Name": "WebKit",
   "URL": "http://webkit.org/",
   "License": "BSD and GPL v2",
   # Absolute path here is resolved as relative to the source root.
   "License File": "/third_party/WebKit/LICENSE_FOR_ABOUT_CREDITS",
},
os.path.join('third_party', 'webpagereplay'): {
   "Name": "webpagereplay",
   "URL": "http://code.google.com/p/web-page-replay",
   "License": "Apache 2.0",
   "License File": "NOT_SHIPPED",
},
os.path.join('tools', 'gyp'): {
   "Name": "gyp",
   "URL": "http://code.google.com/p/gyp",
   "License": "BSD",
   "License File": "NOT_SHIPPED",
},
os.path.join('v8'): {
```

```
    "Name": "V8 JavaScript Engine",
    "URL": "http://code.google.com/p/v8",
    "License": "BSD",
  },
  os.path.join('v8', 'strongtalk'): {
    "Name": "Strongtalk",
    "URL": "http://www.strongtalk.org/",
    "License": "BSD",

 # Absolute path here is resolved as relative to the source root.
    "License File": "/v8/LICENSE.strongtalk",
  },
  os.path.join('v8', 'fdlibm'): {
    "Name": "fdlibm",
    "URL": "http://www.netlib.org/fdlibm/",
    "License": "Freely Distributable",
    # Absolute path here is resolved as relative to the source root.
    "License File" : "/v8/src/third_party/fdlibm/LICENSE",
    "License Android Compatible" : "yes",
  },
  os.path.join('third_party', 'khronos_glcts'): {
    # These sources are not shipped, are not public, and it isn't
    # clear why they're tripping the license check.
    "Name": "khronos_glcts",
    "URL": "http://no-public-url",
    "License": "Khronos",
    "License File": "NOT_SHIPPED",
  },
  os.path.join('tools', 'telemetry', 'third_party', 'gsutil'): {
    "Name": "gsutil",
    "URL": "https://cloud.google.com/storage/docs/gsutil",
    "License": "Apache 2.0",
    "License File":
 "NOT_SHIPPED",
  },
}

# Special value for 'License File' field used to indicate that the license file
# should not be used in about:credits.
NOT_SHIPPED = "NOT_SHIPPED"


class LicenseError(Exception):
  """We raise this exception when a directory's licensing info isn't
  fully filled out."""
  pass

def AbsolutePath(path, filename, root):
```

```
  """Convert a path in README.chromium to be absolute based on the source
  root."""
  if filename.startswith('/'):
    # Absolute-looking paths are relative to the source root
    # (which is the directory we're run from).
    absolute_path = os.path.join(root, filename[1:])
  else:
    absolute_path = os.path.join(root, path, filename)
  if os.path.exists(absolute_path):
    return absolute_path
  return None

def ParseDir(path, root, require_license_file=True, optional_keys=None):
  """Examine a third_party/foo component and extract its metadata."""

  # Parse metadata fields out of README.chromium.
  # We examine "LICENSE" for the license file by default.
  metadata = {
    "License File": "LICENSE",  # Relative path to license text.
    "Name": None,               # Short name (for header on about:credits).
    "URL": None,                # Project home page.
    "License": None,            # Software license.
    }

  if optional_keys is None:
    optional_keys = []

  if path in SPECIAL_CASES:
    metadata.update(SPECIAL_CASES[path])
  else:
    # Try to find README.chromium.
    readme_path = os.path.join(root, path, 'README.chromium')
    if not os.path.exists(readme_path):
      raise LicenseError("missing README.chromium or licenses.py "
                         "SPECIAL_CASES entry")

    for line in open(readme_path):
      line = line.strip()
      if not line:
        break
      for key in metadata.keys() + optional_keys:
        field = key + ": "
        if line.startswith(field):
          metadata[key] = line[len(field):]

  # Check that all expected metadata is present.
  errors = []
  for key, value in metadata.iteritems():
```

```
      if not value:
        errors.append("couldn't find '" + key + "' line "
                      "in README.chromium or licences.py "
                      "SPECIAL_CASES")

    # Special-case modules that aren't in the shipping product, so don't need
    # their license in about:credits.
    if metadata["License File"] != NOT_SHIPPED:
      # Check that the license file exists.
      for filename in (metadata["License File"], "COPYING"):
        license_path = AbsolutePath(path, filename, root)
        if license_path is not None:
          break

      if require_license_file and not license_path:
        errors.append("License file not found. "
                      "Either add a file named LICENSE, "
                      "import upstream's COPYING
 if available, "
                      "or add a 'License File:' line to "
                      "README.chromium with the appropriate path.")
      metadata["License File"] = license_path

    if errors:
      raise LicenseError(";\n".join(errors))
    return metadata


def ContainsFiles(path, root):
    """Determines whether any files exist in a directory or in any of its
    subdirectories."""
    for _, dirs, files in os.walk(os.path.join(root, path)):
      if files:
        return True
      for vcs_metadata in VCS_METADATA_DIRS:
        if vcs_metadata in dirs:
          dirs.remove(vcs_metadata)
    return False


def FilterDirsWithFiles(dirs_list, root):
    # If a directory contains no files, assume it's a DEPS directory for a
    # project not used by our current configuration and skip it.
    return [x for x in dirs_list if ContainsFiles(x, root)]


def FindThirdPartyDirs(prune_paths, root):
    """Find all third_party directories underneath the
```

```
 source root."""
  third_party_dirs = set()
  for path, dirs, files in os.walk(root):
    path = path[len(root)+1:]  # Pretty up the path.

    if path in prune_paths:
      dirs[:] = []
      continue

    # Prune out directories we want to skip.
    # (Note that we loop over PRUNE_DIRS so we're not iterating over a
    # list that we're simultaneously mutating.)
    for skip in PRUNE_DIRS:
      if skip in dirs:
        dirs.remove(skip)

    if os.path.basename(path) == 'third_party':
      # Add all subdirectories that are not marked for skipping.
      for dir in dirs:
        dirpath = os.path.join(path, dir)
        if dirpath not in prune_paths:
          third_party_dirs.add(dirpath)

      # Don't recurse into any subdirs from here.
      dirs[:] = []
      continue

    # Don't recurse into paths in ADDITIONAL_PATHS, like we do with regular
    # third_party/foo
 paths.
    if path in ADDITIONAL_PATHS:
      dirs[:] = []

  for dir in ADDITIONAL_PATHS:
    if dir not in prune_paths:
      third_party_dirs.add(dir)

  return third_party_dirs


def FindThirdPartyDirsWithFiles(root):
  third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)
  return FilterDirsWithFiles(third_party_dirs, root)


def ScanThirdPartyDirs(root=None):
  """Scan a list of directories and report on any problems we find."""
  if root is None:
```

```
  root = os.getcwd()
  third_party_dirs = FindThirdPartyDirsWithFiles(root)

  errors = []
  for path in sorted(third_party_dirs):
    try:
      metadata = ParseDir(path, root)
    except LicenseError, e:
      errors.append((path, e.args[0]))
      continue

  for path, error in sorted(errors):
    print path + ": " + error

  return len(errors) == 0


def GenerateCredits(file_template_file, entry_template_file, output_file):
  """Generate about:credits."""

   def EvaluateTemplate(template, env, escape=True):
    """Expand a template with variables like {{foo}} using a
    dictionary of expansions."""
    for key, val in env.items():
      if escape:
        val = cgi.escape(val)
        val = val.replace("*/", "* /")
      template = template.replace('{{%s}}' % key, val)
    return template

  root = os.path.join(os.path.dirname(__file__), '..')
  third_party_dirs = FindThirdPartyDirs(PRUNE_PATHS, root)

  if not file_template_file:
    file_template_file = os.path.join(root, 'components', 'about_ui',
                                      'resources', 'about_credits.tmpl')
  if not entry_template_file:
    entry_template_file = os.path.join(root, 'components', 'about_ui',
                                       'resources',
                                       'about_credits_entry.tmpl')

  entry_template = open(entry_template_file).read()
  entries
 = []
  for path in third_party_dirs:
    try:
      metadata = ParseDir(path, root)
    except LicenseError:
```

```
        # TODO(phajdan.jr): Convert to fatal error (http://crbug.com/39240).
        continue
      if metadata['License File'] == NOT_SHIPPED:
        continue
      env = {
        'name': metadata['Name'],
        'name-sanitized': metadata['Name'].replace(' ', '-'),
        'url': metadata['URL'],
        'license': open(metadata['License File'], 'rb').read(),
        'license-type': metadata['License']
      }
      entry = {
        'name': metadata['Name'],
        'content': EvaluateTemplate(entry_template, env),
      }
      entries.append(entry)

  entries.sort(key=lambda entry: (entry['name'], entry['content']))
  entries_contents = '\n'.join([entry['content'] for entry in entries])
  file_template = open(file_template_file).read()
  template_contents = "<!-- Generated by licenses.py; do not
edit. -->"
  template_contents += EvaluateTemplate(file_template,
                                        {'entries': entries_contents},
                                        escape=False)

  if output_file:
    with open(output_file, 'w') as output:
      output.write(template_contents)
  else:
    print template_contents

  return True


def main():
  parser = argparse.ArgumentParser()
  parser.add_argument('--file-template',
                      help='Template HTML to use for the license page.')
  parser.add_argument('--entry-template',
                      help='Template HTML to use for each license.')
  parser.add_argument('command', choices=['help', 'scan', 'credits'])
  parser.add_argument('output_file', nargs='?')
  args = parser.parse_args()

  if args.command == 'scan':
    if not ScanThirdPartyDirs():
      return 1
```

```
  elif args.command == 'credits':
     if not GenerateCredits(args.file_template, args.entry_template,

                            args.output_file):
        return 1
  else:
     print __doc__
     return 1


if __name__ == '__main__':
 sys.exit(main())
```

NAME: WebDriver
URL: http://selenium.googlecode.com/svn/trunk/py
LICENSE: Apache 2
LICENSE
=======

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 * Detect unordered_map in stl_hash.m4.
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   all fields (only present with certain compiler settings).
 * Added generation of field number constants.
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 * Small patch improving performance of in Python serialization.
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 * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
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Alexander Melnikov <alm@sibmail.ru>
 * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
 * Detect whether zlib is new enough in configure script.
 * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
 * Optimize Java serialization of strings so that UTF-8 encoding happens only
   once per string per serialization call.
 * Clean up some Java warnings.
 * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
 * Added CodedInputStream.getTotalBytesRead().

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

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

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

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

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

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

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

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

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


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

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

```
 [ -s $@ ] || rm -f $@'

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

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\tableofcontents

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See \c {qtbase/src/3rdparty/forkfd/forkfd.c}.

\section1 FreeBSD strtoll and strtoull

\e {strtoll()} and \e{strtoull()} are functions for converting a string to
(unsigned)
long long integer.

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See \c {qtbase/src/3rdparty/freebsd/strtoll.c} and
\c {qtbase/src/3rdparty/freebsd/strtoull.c}

\section1 Google Type Traits

Changes to the original
implementation:
\list
\li Move base types from template_util.h directly into qtypetraits.h
\li Use Qt macros for long long type differences on Windows.
\li Enclose in QtPrivate namespace.
\endlist

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See \c {qtbase/src/corelib/global/qtypetraits.h}

\section1 FreeType 2 (freetype) version 2.3.12

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and high-quality software solutions for digital typography. We specifically
target embedded systems and focus on bringing small, efficient and
ubiquitous products.} -- quoted from \c 3rdparty/freetype/docs/freetype2.html.

See \c qtbase/src/3rdparty/freetype/docs/FTL.txt and \c
qtbase/src/3rdparty/freetype/docs/GPL.txt for license details.

See also the files in \c qtbase/src/3rdparty/harfbuzz, which are used by
FreeType.

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\list
\li Parts of the FreeType library
\endlist

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\section1 HarfBuzz (harfbuzz)

\e{This is HarfBuzz, an OpenType Layout engine library.}
-- quoted from \c qtbase/src/3rdparty/harfbuzz/README.

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\section1 JasPer (libjasper) version 2.0

\e {JasPer is a collection of software (i.e., a library and application
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See \c qtimageformats/src/3rdparty/jasper/LICENSE.

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\e{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.} -- quoted from \c
qtbase/src/3rdparty/libjpeg/README.

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\e{MD4 (RFC-1320) message digest.}\br
\e{Modified from MD5 code by Andrey Panin <pazke@donpac.ru>}

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\section1 MD5 (md5.cpp and md5.h)

\e{This code implements the MD5 message-digest algorithm.
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\c qtbase/src/3rdparty/md5/md5.h

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\e {Mesa is a 3-D graphics library with an API which is very similar to that
of OpenGL}.

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\section1 MNG Library (libmng) version 1.0.10

\e{The libmng library supports decoding, displaying, encoding, and various
other manipulations of the Multiple-image Network Graphics (MNG) format
image files. It uses the zlib compression library, and optionally the
JPEG library by the Independent JPEG Group (IJG) and/or
lcms (little cms), a color-management library by Marti Maria Saguer.}
-- quoted from \c qtimageformats/src/3rdparty/libmng/doc/libmng.txt

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qtbase/src/3rdparty/libpng/libpng-manual.txt.

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\e{Based on the public domain implementation of the SHA-1 algorithm}\br
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See \c qtbase/src/3rdparty/sha1/sha1.cpp for more information about the terms and conditions under which the code is supplied.

\section1 SHA-3, originally known as Keccak

\e{SHA-3, originally known as Keccak, is a cryptographic hash function designed by Guido Bertoni, Joan Daemen, Michal Peeters, and Gilles Van Assche, building upon RadioGatn.}

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-- quoted from \c qtbase/src/3rdparty/sha3/brg_endian.h

\section1 SQLite (sqlite) version 3.8.5.0

\e{SQLite is a small C library that implements a
self-contained, embeddable, zero-configuration SQL database engine.}

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\section1 TIFF Software Distribution (libtiff) version 3.9.2

\e {libtiff is a set of C functions (a library) that support the
manipulation of TIFF image files.}
-- quoted from \c qtimageformats/src/libtiff/html/libtiff.html

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\section1 Three.js Loader

A parser for loading 3D models from JSON data structures.

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\section1 gl-matrix.js version 2.2.2

High performance matrix and vector operations.

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--quoted from \c qtcanvas3d/3rdparty/gl-matrix.js
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Wintab is a de facto API for pointing devices on Windows. The wintab code is from \l{http://www.pointing.com/WINTAB.HTM}.

See \c qtbase/src/3rdparty/wintab/wintab.h for license details.

\section1 Data Compression Library (zlib) version 1.2.5

\e{zlib is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952} -- quoted from \c qtbase/src/3rdparty/zlib/README.

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\section1 Pixman (pixman) version 0.17.11

\e{pixman is a library that provides low-level pixel manipulation
features such as image compositing and trapezoid rasterization.} -- quoted
from \c qtbase/src/3rdparty/pixman/README

We are only using the pixman-arm-neon-asm.h and pixman-arm-neon-asm.S
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Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)

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See \c qtbase/src/3rdparty/pixman/pixman-arm-neon-asm.h and
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\section1 WebCore (WebKit)

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\e{The Public Suffix List is an initiative of the Mozilla Project, but is
maintained as a community resource. It is available for use in any
software, but was originally created to meet the needs of browser
manufacturers. It allows browsers to, for example:}
\list
\li \e{Avoid privacy-damaging "supercookies" being set for high-level
domain name suffixes}
\li \e{Highlight the most important part of a domain name in the user
interface}
\li \e{Accurately sort history entries by site}
\endlist

The public suffix list is used inside Qt to avoid such "supercookies"
mentioned above being set in the cookie jar supported by Qt (by the
QNetworkCookieJar class).

See \c qtbase/src/corelib/io/qurltlds_p.h.INFO for more information about
how the list is used.

\section1 IAccessible2 IDL Specification

\e{IAccessible2 is a new accessibility API which complements
Microsoft's earlier work on MSAA. This API fills critical accessibility
API gaps in the MSAA offering. IAccessible2 was created out of necessity
to produce a usable and accessible OpenDocument Format (ODF) based
office suite for the Commonwealth of Massachusetts. IAccessible2 is an
engineered accessibility interface allowing application developers to
leverage their investment in MSAA while also providing an Assistive
Technology (AT) access to rich document applications such as the IBM
Workplace productivity editors and web browsers such as Firefox. The
additional functionality includes support for rich text,
tables,
spreadsheets, Web 2.0 applications, and other large mainstream
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-- quoted from \l{http://www.linuxfoundation.org/collaborate/workgroups/accessibility/iaccessible2}.

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\section1 ISO 2022-JP (JIS) Text Codec

\e{ISO/IEC 2022 is an ISO standard specifying:
- a technique for including multiple character sets in a single character encoding system, and
- a technique for representing these character sets in both 7 and 8 bit systems using the same encoding.}

ISO-2022-JP is a widely used encoding for Japanese.

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KR is a variable-width encoding to represent Korean text using two coded
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(), which means national standard in Chinese, while K stands for Extension
("Kuozhan"). GBK not only extended the old standard GB2312 with Traditional Chinese
characters, but also with Chinese characters that were simplified after the establishment
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\section1 TSCII Text Codec

The TSCII codec provides conversion to and from the Tamil TSCII encoding.

TSCII, formally the Tamil Standard Code Information Interchange specification,
is a commonly used charset for Tamils.

This codec uses the mapping table found at http://www.geocities.com/Athens/5180/tsciiset.html.
Tamil uses composed Unicode which might cause some problems if you are using
Unicode fonts instead of TSCII fonts.

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Callgrind, an extension to Cachegrind created by Josef Weidendorfer which
produces more information about callgraphs. It was folded into the mainline
version of Valgrind in version 3.2.0. KCacheGrind is capable of visualizing
output from Callgrind as well as Cachegrind.

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This file is part of callgrind, a valgrind tool for cache simulation
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\section1 Stack-less Just-In-Time compiler

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--quoted from qtbase/src/3rdparty/pcre/sljit/sljitLir.c

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\section1 xcb

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\section1 Botan version 1.8.8

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The source code of Botan C++ crypto library can be found in
QtCreator/src/libs/3rdparty

\hr
\section1 at-spi and at-spi2

\e{at-spi provides a Service Provider Interface for the Assistive Technologies
available on the GNOME platform and a library against which applications
can be linked.}

The AT-SPI
package is a part of the GNOME Accessibility Project.
(http://developer.gnome.org/projects/gap)

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\e{Poly2Tri
is a sweepline constrained Delaunay Polygon Triangulation Library.}

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\section1 BlueZ
\e{A Bluetooth stack for Linux based operating systems.}
\badcode
BlueZ - Bluetooth protocol stack for Linux

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-- used by qtconnectivity/src/sdpscanner

\hr
\section1 Easing Equations

\e{Easing Equations is a collection of swappable functions that add
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-- quoted from qtbase/src/3rdparty/easing/easing.cpp

\hr
\section1 xkbcommon

\e{xkbcommon is a library to handle keyboard descriptions, including loading
them from disk, parsing them and handling their state. It's mainly meant
for client toolkits, window systems, and other system applications}

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\hr
\section1 Clucene Core Library

\e{CLucene is a C++ port of Lucene. It is a high-performance, full-
featured text search engine written in C++. CLucene is faster than lucene
as it is written in C++.}
-- quoted from \c qttools/src/assistant/3rdparty/clucene/README.

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\list
    \li From \c {qtwayland/src/3rdparty/protocol/wayland.xml}
\endlist

\section1 WebP (libwebp) version 0.4.3

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\section1 V8 double/string conversion library

Library for binary-decimal and decimal-binary conversion routines for
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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files
 libavcodec/x86/flac_dsp_gpl.asm
 libavcodec/x86/idct_mmx.c
- libutvideo encoding/decoding wrappers in
 libavcodec/libutvideo*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
 libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f_ebur128.c
  - vf_blackframe.c
  - vf_boxblur.c
  - vf_colormatrix.c
  - vf_cropdetect.c
  - vf_decimate.c
  - vf_delogo.c
  - vf_geq.c
  - vf_histeq.c
  - vf_hqdn3d.c
  - vf_interlace.c
  - vf_kerndeint.c
  - vf_mcdeint.c
  - vf_mp.c
  - vf_owdenoise.c
  - vf_perspective.c
  - vf_phase.c
  - vf_pp.c
  - vf_pullup.c
  - vf_sab.c
  - vf_smartblur.c
  - vf_spp.c
  - vf_stereo3d.c
  - vf_super2xsai.c
  - vf_tinterlace.c

- vsrc_mptestsrc.c

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then
the configure parameter --enable-version3 will activate this licensing option
for you. Read the file COPYING.LGPLv3 or, if you have enabled GPL parts,
COPYING.GPLv3 to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and
 libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for
  licensing details. Specifically note that you must credit the IJG in the
 documentation accompanying your program if you only distribute executables.
 You must also indicate any changes including additions and deletions to
 those three files in the documentation.

external libraries
==========

FFmpeg can be combined with a number of external libraries, which sometimes
affect the licensing of binaries resulting from the combination.

compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That
license is incompatible with the LGPL v2.1 and the GPL v2, but not with
version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version
 needs to be upgraded by passing --enable-version3 to configure.

incompatible libraries

The Fraunhofer AAC library, FAAC and aacplus are under licenses which

```
are incompatible with the GPLv2 and v3. We do not know for certain if their
licenses are compatible with the LGPL.
If you wish to enable these libraries, pass --enable-nonfree to configure.
But note that if you enable any of these libraries the resulting binary will
be under a complex license mix that is more restrictive than the LGPL and that
may result in additional obligations. It is possible that these
restrictions cause the resulting binary to be unredistributeable.
#!/usr/bin/env python
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import json
import os
import sys


import common


def main_run(args):
 with common.temporary_file() as tempfile_path:
  rc = common.run_command([
      os.path.join(common.SRC_DIR, 'tools', 'checklicenses',
                   'checklicenses.py'),
      '--json', tempfile_path
  ])

  with open(tempfile_path) as f:
    checklicenses_results = json.load(f)

 result_set = set()
 for result in checklicenses_results:
  result_set.add((result['filename'], result['license']))

 json.dump({
    'valid': True,
    'failures': ['%s: %s' % (r[0], r[1]) for r in result_set],
 }, args.output)

 return rc


def main_compile_targets(args):
 json.dump([], args.output)


if __name__ == '__main__':
```

```
funcs = {
  'run': main_run,
  'compile_targets': main_compile_targets,
}
sys.exit(common.run_script(sys.argv[1:],
funcs))
```

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1.59 openssl 1.0.0t

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1.67 nginx 1.14.2

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1.68 glibc 2.24

1.69 zlib 1.2.8

1.69.1 Available under license :

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

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1.70 popt 1.13-16.el7

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1.71 zlib 1.2.5

1.71.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.72 stunnel 4.56

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1.73 zlib 1.0.4

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1.74 libxext 1.3.3-3.el7

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1.76 libmnl 1.0.3-7.el7

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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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1.84 libgsm 1.0.13-11.el7

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1.87 groff 1.22.2

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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

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src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device.  It is based on X11's `xditview' program
  and thus has the X license.

    src/devices/xditview/DESC.in
     src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
    src/devices/xditview/ad2c
    src/devices/xditview/device.c
    src/devices/xditview/device.h
    src/devices/xditview/draw.c
    src/devices/xditview/font.c
    src/devices/xditview/gray1.bm
    src/devices/xditview/gray2.bm
    src/devices/xditview/gray3.bm
    src/devices/xditview/gray4.bm
    src/devices/xditview/gray5.bm
    src/devices/xditview/gray6.bm
    src/devices/xditview/gray7.bm
    src/devices/xditview/gray8.bm
    src/devices/xditview/gxditview.man
    src/devices/xditview/lex.c
    src/devices/xditview/page.c
    src/devices/xditview/parse.c
    src/devices/xditview/xdit.bm
    src/devices/xditview/xdit_mask.bm
    src/devices/xditview/xditview.c

    src/include/DviChar.h
    src/include/XFontName.h

     src/libs/libxutil/DviChar.c
    src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

    tmac/doc.tmac
    tmac/doc-old.tmac
    tmac/doc-common
    tmac/doc-ditroff
    tmac/doc-nroff

tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the
same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehypht-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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By Jason Summers <jason1@pobox.com>
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/* *                                                                       * */
/* ************************************************************************* */
/* *                                                                       * */
/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.      * */
/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                                       * */
/* * This library's function
 is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing          * */
/* * component! It does however offer creation and editing functionality    * */
/* * at the chunk level.                                                   * */
/* * (future modifications may include some more support for creation       * */
/* *  and or editing)                                                      * */
/* *                                                                       * */
/* ************************************************************************* */
```

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Version 2, June 1991

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   <META NAME="Version"     CONTENT="libsamplerate-0.1.8">
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Author :<BR>Erik de Castro Lopo
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<!-- pepper -->

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1.97 json-c 0.12.1

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1.98 iperf 2.0.4

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****** MD5 Library (common/md5.hpp) ******
md5.hpp is a reformulation of the md5.h and md5.c code from
http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c to allow it to
function as a component of a header only library. This conversion
was done by
Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The
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1.102 net-tools 1.60

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1.103 libjpeg 6b

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

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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.

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

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive compression
 processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding

variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

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

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

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of any program generated from the IJG code, this does not limit you more than
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The Unix configuration script "configure" was produced with GNU Autoconf.
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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
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REFERENCES
==========

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,
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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.
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A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing

the figures.

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

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ
is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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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
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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

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

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

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

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

As always, speeding things up is of great interest.

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

1.104 sqlite 3.8.6

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1.105 glibc 2.20

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@subheading END OF TERMS AND CONDITIONS

@page
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smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice

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```

1.108 curl 7.26.0

1.108.1 Available under license :

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

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the other libraries use and what possible dilemmas linking and mixing them all
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1.109 openssh 5.6p1

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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
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 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```
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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
```

```
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
/*
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
```

```
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.110 protobuf-c 1.2.1

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1.111 json-simple 1.1.1

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1.113 sysv-init 2.88

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The of the start-stop-daemon

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 of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
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1.117 busybox 1.2.2

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1.119 busybox 1.10.2

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1.120 libjpeg 8b

1.120.1 Notifications :

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1.120.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 9c of 14-Jan-2018
==========

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty,
terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive

compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision
for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

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

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

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

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commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

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

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

support has been removed altogether, and the GIF writer has been simplified
to produce "uncompressed GIFs". This technique does not use the LZW
algorithm; the resulting GIF files are larger than usual, but are readable
by all standard GIF decoders.

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

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in
that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

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

The best currently available description of JPEG is the textbook "JPEG Still
Image Data Compression Standard" by William B. Pennebaker and Joan L.
Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1.
Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG
standards (DIS 10918-1 and draft DIS 10918-2).
Although this is by far the most detailed and comprehensive exposition of
JPEG publicly available, we point out that it is still missing an explanation
of the most essential properties and algorithms of the underlying DCT
technology.
If you think that you know about DCT-based JPEG after reading this book,
then you are in delusion. The real fundamentals and corresponding potential
of DCT-based JPEG are not publicly known so far, and that is the reason for
all the mistaken developments taking place in the image

coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.
IJG JPEG 9 introduces a reversible color transform
for improved lossless
compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

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

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

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in

directory "files". This particular version will be archived as
http://www.ijg.org/files/jpegsrc.v9c.tar.gz, and in Windows-compatible
"zip" archive format as http://www.ijg.org/files/jpegsr9c.zip.

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

ACKNOWLEDGMENTS
==========

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

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

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

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

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

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communication about JPEG configuration in Sigma Photo Pro software.

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

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

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

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

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,
together with ITU-T SG16) currently
promotes different formats containing
the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual
requirements for the maintenance of the original JPEG specification.
Furthermore,
the ISO committee pretends to "ensure interoperability" with
their standards which is not true because their "standards" support only
application-specific and proprietary use cases and contain mathematically
incorrect code.

There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and
are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.

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

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other
institutions or corporations that knowingly perform substantial and
systematic deceptive acts and practices, fraud, theft, and damaging of the
value of the people of this planet without their knowing, willing and
intentional consent.
The titles, ownership, and rights of these institutions and all their assets
are now duly secured and held in trust for the free people of this planet.
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the assets of these former principals, agents, and beneficiaries of the
foreclosed institutions and corporations.
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or the special interest of another without their appropriate knowing,
willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

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

TO DO
=====

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

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

1.121 bridgeutils 1.5

1.121.1 Available under license :

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@subheading END OF TERMS AND CONDITIONS

@page
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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
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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the work with the complete corresponding
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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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1.129 atk 2.28.1

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1.130 mtd-utils 2.0.0

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to

control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.134 harfbuzz 1.7.4

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1.135 harfbuzz 1.0.6

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1.137 unzip 6.00

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(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
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placement of output routines; addition of inflate(), wildcards,
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tell, only the core code of the unreduce method remained substantially
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```
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 *
 * 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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"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."

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The remaining code was written by many people associated with the
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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
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1.138 flite 2.0.0

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/*************************************************************************/
```

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src/audio/au_wince.c
src/utils/cst_file_stdio.c
src/utils/cst_mmap_posix.c
src/utils/cst_mmap_win32.c
src/utils/cst_mmap_none.c
src/utils/cst_file_wince.c
sapi/
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doc/alice
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src/regex/regexp.c
src/regex/regsub.c

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src/speech/rateconv.c

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lang/usenglish/us_durz_cart.c
lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
lang/usenglish/us_phoneset.c
lang/usenglish/us_f0lr.c
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config.guess
missing
install-sh
mkinstalldirs
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  convenient configuration and are not part of the generated binary,
  and therefore do not impose any GPL restrctions on the rest of the
  system. But as they are standard methods for configuration they
  are included.

src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c

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/* Original table developed by Richard Sproat and Kyoung-young Kim */
/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
/* Then converted to C for CMU Flite (cmuflite.org) */

1.139 attr 1.1.0

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1.140 augeas 0.13.1

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1.141 dbus-glib 1.2.1.0

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be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.151 gettext unknown

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@center Version 2.1, February 1999

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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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.

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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 @dfn{Lesser} General Public License because it
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of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
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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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above, provided that you also meet all of these conditions:

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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.

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

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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
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or

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
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instead of to this License. (If a newer version than version 2 of the
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these notices.

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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.

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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
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you
distribute.

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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
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Accompany the combined library with a copy of the same work
based on the Library,
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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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@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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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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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
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when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
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the Program is not required to print an announcement.)
@end enumerate

These requirements apply to the modified work as
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sections when you distribute them as separate works. But when you
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on the Program, 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 Program.

In addition, mere aggregation of another work not based on the Program
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a storage or distribution medium does not bring
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the scope of this License.

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

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}
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when it starts in an interactive mode:

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

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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1.163 attr 1.1.0

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1.164 boost 1.63

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>


template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }
```

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


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  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

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  <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

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      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
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</div>


  <div class="document">
 <div class="chapter">
    <div class="body" role="main">

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```

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</td>
</tr></table>

```
  </div>
 </body>
</html>
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>


template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;


int main() { }
//////////////////////////////////////////////////////////////////////////////
//
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//
// See http://www.boost.org/libs/intrusive for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
```

```
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
 boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
 boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
```

```
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
  template <typename T>                                           \
  struct boost_intrusive_has_type_ ## TNAME                       \
  {                                                               \
     template <typename X>                                        \
     static char test(int, typename X::TNAME*);                   \

                                    \
     template <typename X>                                        \
     static int test(...);                                        \
                                                                  \
     static const bool value = (1 == sizeof(test<T>(0, 0)));     \
  };                                                              \
                                                                  \
  template <typename T, typename DefaultType>                     \
  struct boost_intrusive_default_type_ ## TNAME                   \
  {                                                               \
     struct DefaultWrap { typedef DefaultType TNAME; };           \
                                                                  \
     typedef typename                                             \
       ::boost::intrusive::detail::if_c                           \
         < boost_intrusive_has_type_ ## TNAME<T>::value           \

       , T, DefaultWrap>::type::TNAME type;                       \
  };                                                              \
  //

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL)   \
     typename INSTANTIATION_NS_PREFIX                                          \
```

```
      boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                    \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  \
   INSTANTIATION_NS_PREFIX                                  \
      boost_intrusive_has_type_ ## TNAME< T >::value          \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
 template <typename T, typename DefaultType>                \
 struct boost_intrusive_eval_default_type_ ## TNAME         \
 {                                                  \
   template <typename X>                                \
   static char
test(int, typename X::TNAME*);              \
                                                  \
   template <typename X>                                \
   static int test(...);                            \
                                                  \
   struct DefaultWrap                                   \
   { typedef typename DefaultType::type TNAME; };           \
                                                  \
   static const bool value = (1 == sizeof(test<T>(0, 0)));     \
                                                  \
   typedef typename                                     \
     ::boost::intrusive::detail::eval_if_c                  \
       < value                                      \
       , ::boost::intrusive::detail::identity<T>            \
       , ::boost::intrusive::detail::identity<DefaultWrap>
  \
       >::type::TNAME type;                             \
 };                                                 \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
   typename INSTANTIATION_NS_PREFIX                                          \
      boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type                    \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
 template<bool Add>\
 struct two_or_three {yes_type _[2 + Add];};\
 template <class U> static yes_type test(...);\
```

```
  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
  static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
 FUNC_NAME) \
 template <typename U, typename Signature> \
 class TRAITS_NAME \
 { \
 private: \
 template<Signature> struct helper;\
 template<typename T> \
 static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
 template<typename T> static ::boost::intrusive::detail::no_type test(...); \
 public: \
 static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
 }; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
  struct BaseMixin \
  { \
     void FUNC_NAME(); \
  }; \
  struct Base : public Type, public BaseMixin { Base(); }; \
  template <typename T, T t> class Helper{}; \
  template <typename U> \
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type test(...); \

 static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
};\
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
```

```
\
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};\
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]
[/
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href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next">

<h2 class="title" style="clear: both">
MPL
Interoperability
</h2>

    All the value based traits in this library conform to MPL's requirements for
    an <a
 href="../../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
    Constant type.

    Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl::true_</code> or
    <code class="computeroutput">mpl::<span
class="identifier">false_</code> etc, and the library will no longer
    implicitly include any MPL header. However there is an implicit conversion
    from <code class="computeroutput">integral_constant</code> to the
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</tr></table>
<hr>

<img src="../../../../../doc/src/images/prev.png" alt="Prev"><a
accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"><a accesskey="h"
href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png"
 alt="Next">

```
</body>
</html>
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
var group__group_ext_mpl =
[
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
//////////////////////////////////////////////////////////////////////////////
//
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//
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
```

```
using boost::move_detail::true_type;
using
 boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template
 <class FirstType>
struct select1st
{
  typedef FirstType type;

  template<class T>
  const type& operator()(const T& x) const
  {  return x.first;   }

  template<class T>
  type& operator()(T& x)
  {  return const_cast<type&>(x.first);   }
};

template <class T, class=void>
struct is_transparent
{
```

```
  static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};



}  //namespace dtl {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

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```
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
```

```
from operator import itemgetter
import re
import magic

def authors(filename):
  log = run(['git', 'log', '--follow',
        '--date=short','--format=%aN%x09%ad', filename],
        universal_newlines=True)
  for line in log.splitlines():
    author, date = line.split('\t')
    if author != 'fix-copyright.py':
      yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
  def f():
    au = list(authors(filename))
    alldates = map(itemgetter(1), au)
    aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
    for author, records in groupby(aup, itemgetter(0)):
      dates = filter(None, map(itemgetter(1), records))
      if not dates: dates = alldates
      start = min(dates)
      end = max(dates)
      fmt = '{0}' if start.year ==
 end.year else '{0}-{1}'
      line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
      key = (start, author)
      yield key, line
  return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
  # Find copyright block in original file
  prefix = set()
  names = []
  lines = []
  with open(filename, 'r') as f:
    content = list(f)
  for i, line in enumerate(content[:15]):
    m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
    if m:
      d = m.groupdict()
      prefix.add(d['prefix'])
      lines.append(i)
      names.append(d['name'].strip())
  if len(prefix) != 1:
    print 'Not found:', filename
    return
```

```
  prefix = list(prefix)[0]

  print filename
  new = iter(new_copyright(filename, names))
  with open(filename, 'w') as f:
     for i, line in enumerate(content):
        if i in
lines:
           for repl in new:
              print >>f, prefix + repl
        else:
           print >>f, line,
  pass

def all_files():
  ls = run(['git', 'ls-files'], universal_newlines=True)
  for filename in ls.splitlines():
     if magic.from_file(filename, mime=True).split('/')[0] == 'text':
        yield filename

for f in all_files():
  fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

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   (See accompanying file LICENSE_1_0.txt or  http://www.boost.org/LICENSE_1_0.txt)
-->

<section id="date_time.license">
 <title>Boost Date-Time Library License</title>
 <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
 <!--
 <ulink url="../../../index.htm">
  <imagedata align="left"
           format="GIF"
       fileref="../../../boost.png"
       alt="C++ Boost" />
   </ulink>-->
 <!--hr /-->
 <para>
  The following is the overall license for the boost date_time
```

library. This notice is found in all source files related to the
library.
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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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</section>
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Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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```
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript"
 src="navtree.js"></script>
<script type="text/javascript">
 $(document).ready(initResizable);
 $(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
 $(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
```

```
 MathJax.Hub.Config({
   extensions: ["tex2jax.js"],
   jax: ["input/TeX","output/HTML-CSS"],
});
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MathJax.Hub.Config({
   "HTML-CSS": {
      linebreaks: {
         automatic: true,
         width: "75% container"
      }
   }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
 href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
 <td id="projectlogo"><img alt="Logo" src="Boost.png"/></td>
 <td style="padding-left: 0.5em;">
  <div id="projectname">Boost.Hana
   <span id="projectnumber">1.5.0</span>
  </div>
  <div id="projectbrief">Your standard library for metaprogramming</div>
 </td>
  <td>        <div id="MSearchBox" class="MSearchBoxInactive">
       <span class="left">

  <img id="MSearchSelect" src="search/mag_sel.png"
               onmouseover="return searchBox.OnSearchSelectShow()"
               onmouseout="return searchBox.OnSearchSelectHide()"
               alt=""/>
         <input type="text" id="MSearchField" value="Search" accesskey="S"
               onfocus="searchBox.OnSearchFieldFocus(true)"
               onblur="searchBox.OnSearchFieldFocus(false)"
```

```
            onkeyup="searchBox.OnSearchFieldChange(event)"/>
        </span><span class="right">
          <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"><img id="MSearchCloseImg"
border="0" src="search/close.png" alt=""/></a>
        </span>
      </div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
 <div id="nav-tree">
    <div id="nav-tree-contents">
     <div id="nav-sync" class="sync"></div>
   </div>
 </div>
 <div id="splitbar" style="-moz-user-select:none;"
      class="ui-resizable-handle">
 </div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"
    onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
       name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
 <div class="summary">
<a href="#nested-classes">Classes</a>  </div>
```

Boost.MPL adapters <a
class="el" href="group__group-ext.html">External adapters
<!--header-->

<h2 class="groupheader">Description</h2>
Adapters for Boost.MPL containers.
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader">
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL lists.
More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL
vectors. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
</table>
<!-- contents -->
<!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<!-- id is needed for treeview function! -->

</body>
</html>
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in

README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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-->

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

```
  <title>&lt;no title&gt; &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link
 rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
 </head>
 <body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86"src="_static/boost.png"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p"  ><img src="_static/prev.png" alt="Prev"></a>
<a accesskey="u" href="doc/index.html"><img src="_static/up.png" alt="Up"></a>
<a accesskey="h" href="doc/index.html"><img src="_static/home.png" alt="Home"></a>
<a accesskey="n"  ><img src="_static/next.png" alt="Next"></a>
</div>


  <div class="document">
 <div class="chapter">
    <div class="body" role="main">

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```
    </div>
 </div>
    <div class="clearer"></div>
  </div>
  <div class="footer" role="contentinfo">
  <table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
  <td align="left"></td>
  <td align="right"><div class="copyright-footer">
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      <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
      </p>
  </div></td>
  </tr></table>
  </div>
 </body>
</html>
<!DOCTYPE html>
<html>
 <head></head>
 <body>
  <h3>
   Copyright Test
  </h3>
  <p class="copyright">
   1963, 1964, 1965 Jane Doe
  </p>
```

```
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
  </p>
 </body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
 </articleinfo>
</article>
```

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }
//
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
//

```
#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef
 bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};
```

```
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
  , typename T1
  , typename T2
  >
struct if_c
{
  typedef T1 type;
};

template<
    typename T1
  , typename T2
  >
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
    typename T1
  , typename T2
  , typename T3
  >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
```

```
{
   static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
[/============================================================================
 Boost.Geometry (aka GGL, Generic Geometry Library)

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 http://www.boost.org/LICENSE_1_0.txt)
=============================================================================/]
/*
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*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
```

```
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
    : root(r), file(f){}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
  return os;
}

std::string
 make_link_target(const std::string& s)
{
  // convert an arbitrary string into something suitable
  // for an <a> name:
  std::string result;
  for(unsigned i = 0; i < s.size(); ++i)
  {
    result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
  }
  return result;
}



void bcp_implementation::output_license_info()
{
  std::pair<const license_info*, int> licenses = get_licenses();

  std::map<int, license_data>::const_iterator i, j;
  i = m_license_data.begin();
  j = m_license_data.end();

  std::ofstream os(m_dest_path.string().c_str());
  if(!os)
  {
    std::string msg("Error opening ");
    msg += m_dest_path.string();
    msg += " for output.";
    std::runtime_error e(msg);
    boost::throw_exception(e);
```

```
}
os <<
  "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
  "<html>\n"
  "<head>\n"
  "<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
 {
  os << " for " << *(m_module_list.begin());
}
os <<
  "</title>\n"
  "</head>\n"
  "<body>\n"
  "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
  "</H1>\n"
  "<H2>Contents</h2>\n"
  "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
  os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
  // title:
  os << "   <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
     << "\">" << licenses.first[i->first].license_name << "</a>\n";
  ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
  "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
  os <<
  "Moving to the Boost Software License...\n"
  "  <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
  "  <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
  "  <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
  "  <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
  "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
```

```
  os <<
    "<a href=\"#depend\">File Dependency Information</a>\n"
    "</pre>";

  //
  // input Information:
  //
  os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
  if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
  else
    os << "<P>The following Boost modules were checked:<BR>";

  std::list<std::string>::const_iterator si = m_module_list.begin();
  std::list<std::string>::const_iterator sj = m_module_list.end();
  while(si != sj)
  {
    os
 << *si << "<BR>";
    ++si;
  }
  os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
  //
  // extract the boost version number from the boost directory tree,
  // not from this app (which may have been built from a previous
  // version):
  //
  fileview version_file(m_boost_path / "boost/version.hpp");
  static const boost::regex version_regex(
    "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
  boost::cmatch what;
  if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
  {
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
 << "</P>\n";
  }

  //
  // output each license:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  if(!m_bsl_summary_mode)
  {
    //
    // start with the summary:
    //
```

```
    os << "<a name=\"summary\"></a><h2>Licence
 Summary</h2>\n";
    while(i != j)
    {
      // title:
      os <<
        "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
      // license text:
      os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
      // Copyright holders:
      os << "<P>This license is used by " << i->second.authors.size()
        << " authors and " << i->second.files.size()
        << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
      os << "</P></BLOCKQUOTE>\n";
      ++i;
    }
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  int license_index = 0;
  os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
  while(i != j)
  {
    // title:
    os <<
      "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
      << "\"></a>" << licenses.first[i->first].license_name
 << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
      // Copyright holders:
      os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
      std::set<std::string>::const_iterator x, y;
      x = i->second.authors.begin();
      y = i->second.authors.end();
      while(x != y)
      {
        os << *x << "<BR>\n";
        ++x;
      }
      os << "</P></BLOCKQUOTE>\n";
      // Files using this license:
```

```
      os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
      std::set<fs::path, path_less>::const_iterator m, n;
      m = i->second.files.begin();
      n = i->second.files.end();
      while(m != n)
      {
        os << split_path(m_boost_path,
 *m) << "<br>\n";
        ++m;
      }
      os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
      os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
      os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
  }
  //
  // Output list of files not found to be under license control:
  //
  os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
  std::set<fs::path, path_less>::const_iterator i2, j2;
  i2 = m_unknown_licenses.begin();
  j2 = m_unknown_licenses.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  //
  // Output list of files with no found
 copyright holder:
  //
  os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
```

```
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  if(!m_bsl_summary_mode)
  {
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
       << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())

    {
      typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
      conv_iterator i = m_converted_to_bsl.begin(),
                    ie = m_converted_to_bsl.end();
      int file_num = 1;
      while (i != ie)
      {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
          << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
          << i->second.first << "</pre></td>\n    <td><pre>"
          << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
        ++i;
        ++file_num;
      }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
 converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
```

```
    //
    os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that
 we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
      "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
      os << "<tr><td>" << ad->first << "</td><td>";
      std::set<fs::path,
 path_less>::const_iterator fi, efi;
      fi = ad->second.begin();
      efi = ad->second.end();
      while(fi != efi)
      {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
      }
      os << "</td></tr>\n";
      ++ad;
    }
    os << "</table>\n";
 }
```

```
 //
 // output file dependency information:
 //
 os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
 std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
 std::set<fs::path, path_less>::const_iterator fi, efi;
 fi = m_copy_paths.begin();
 efi = m_copy_paths.end();
 // if in summary mode, just figure out the "bad" files and print those only:
 std::set<fs::path, path_less> bad_paths;
 if(m_bsl_summary_mode)
 {
   bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
   bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
   bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
   bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
   typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
     ::const_iterator conv_iterator;
   conv_iterator i = m_converted_to_bsl.begin(),
                 ie = m_converted_to_bsl.end();
   while(i != ie)
   {
     bad_paths.insert(i->first);
     ++i;
   }
   fi = bad_paths.begin();
   efi = bad_paths.end();
   os << "<P>For brevity, only files not under the BSL are shown</P>\n";
 }
 while(fi != efi)
 {
   os << split_path(m_boost_path, *fi);
   dep = m_dependencies.find(*fi);
   last_dep = m_dependencies.end();
   std::set<fs::path, path_less> seen_deps;
   if (dep != last_dep)
     while(true)
       {
         os << " -> ";
         if(fs::exists(m_boost_path / dep->second))
           os << split_path(m_boost_path, dep->second);
         else if(fs::exists(dep->second))
            os << split_path(fs::path(), dep->second);
         else
           os << dep->second.string();
         if(seen_deps.find(dep->second) != seen_deps.end())
```

```
            {
              os << " <I>(Circular dependency!)</I>";
              break; // circular dependency!!!
            }
          seen_deps.insert(dep->second);
          last_dep = dep;
          dep = m_dependencies.find(dep->second);
          if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
            break;
        }
      os << "\n";
      ++fi;
    }
    os << "</pre></BLOCKQUOTE>\n";

    os << "</body></html>\n";

    if(!os)
    {
      std::string msg("Error writing to ");
      msg += m_dest_path.string();
      msg += ".";
      std::runtime_error e(msg);
      boost::throw_exception(e);
    }

  }
```

1.165 libts 1.0.0

1.166 mini-xml unknown

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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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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
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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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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 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
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1.173 libsrtp 3.2

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1.174 libxml2 2.9.9

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1.175 libusb 1.0

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src/audio/au_wince.c
src/utils/cst_file_stdio.c
src/utils/cst_mmap_posix.c
src/utils/cst_mmap_win32.c
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sapi/
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doc/alice
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src/regex/regexp.c
src/regex/regsub.c

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lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
lang/usenglish/us_phoneset.c
lang/usenglish/us_f0lr.c
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src/speech/g72x.h
src/speech/g721.c
src/speech/g72x.c
src/speech/g723_24.c
src/speech/g723_40.c

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/* Original table developed by Richard Sproat and Kyoung-young Kim */
/* Ported for Festvox by Gopala Anumachipalli gopalakr@cs.cmu.edu Sep 2012 */
/* Then converted to C for CMU Flite (cmuflite.org) */

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target
 : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
/* Native-dependent code for modern i386 BSD's.
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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void i386bsd_store_inferior_registers
 (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/i386 target.  */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
/* Native-dependent code for modern AMD64 BSD's.

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```

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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
          int regnum);
extern
 void amd64bsd_store_inferior_registers (struct regcache *regcache,
          int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
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gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify
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 should have received a copy of the GNU General Public License
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@end smallexample

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

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box".

You should also get your employer (if you work as a programmer) or school,
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@c man 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
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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with the library, after making changes
to the library and recompiling
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necessary. Here is a sample; alter
the names:

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

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

That's all there is to it!
/* BSD Kernel Data Access Library (libkvm) interface.

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along with this program. If not, see <http://www.gnu.org/licenses/>. */

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
#include "gdbcore.h"
#include

```
 "inferior.h"         /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static
 const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public process_stratum_target
{
```

```
public:
 bsd_kvm_target () = default;

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
     const char *annex,
     gdb_byte *readbuf,
     const gdb_byte *writebuf,
     ULONGEST offset, ULONGEST len,
     ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target
 bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

     filename = tilde_expand (arg);
     if (filename[0] != '/')
 {
   temp = concat (current_directory, "/", filename, (char *)NULL);
   xfree (filename);
```

```
  filename = temp;
 }
  }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
     write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
  error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
  if (core_kd)
   {
     if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
     core_kd = NULL;
   }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
   nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
   nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
```

```
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
        const char *annex, gdb_byte *readbuf,
        const gdb_byte *writebuf,
        ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
   {
   case TARGET_OBJECT_MEMORY:
     {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
   return TARGET_XFER_EOF;
 else
   {
     *xfered_len = (ULONGEST)
 ret;
     return TARGET_XFER_OK;
   }
     }

   default:
     return TARGET_XFER_E_IO;
   }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;
```

```
 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
   {
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
     return;
   }

 /* On dumping core, BSD kernels store the faulting context (PCB)

 in the variable "dumppcb".  */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     /* Found dumppcb.  If it contains a valid context, return
  immediately.  */
     if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
 return;
   }

 /* Traditional BSD kernels have a process proc0 that should always
    be present.  The address of proc0's PCB is stored in the variable
    "proc0paddr".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_proc0paddr";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
```

```
    struct pcb *paddr;

    /* Found proc0paddr.  */
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels
 for 5.0-RELEASE and later, the PCB no longer
   lives in `struct proc' but in `struct thread'.  The `struct
   thread' for the initial thread for proc0 can be found in the
   variable "thread0".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_thread0";

 if (kvm_nlist (core_kd, nl) == -1)
  error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
  {
    struct pcb *paddr;

    /* Found thread0.  */
    nl[0].n_value += offsetof (struct thread, td_pcb);
    if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

    bsd_kvm_fetch_pcb (regcache, paddr);
    return;
  }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
```

```
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static
 void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
   error_no_arg (_("proc address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif

 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
   error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
   /* i18n: PCB == "Process Control Block".  */
   error_no_arg (_("pcb address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (),
```

```
 -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
  register CUPPLY_PCB as the architecture-specific process control
  block interpreter.  */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
  add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance.  Currently,
    we don't support multiple kvm inferiors, but we start at 1
```

```
   anyway.  The lwp field is set to != 0, in case the core wants to
   refer to the whole kvm inferior with ptid(1,0,0).

   If kvm is made to export running processes as gdb threads,
   the following form can be used:
   ptid (1, 1, 0) -> kvm inferior 1, in kernel
   ptid (1, 1, 1) -> kvm inferior 1, process 1
   ptid (1, 1, 2) -> kvm inferior 1, process 2
   ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
 "-*- buffer-read-only: t -*- vi" \
 ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
 printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
```

```
  print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";

  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
#! /usr/bin/env python

# Copyright (C) 2011-2019 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
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# (at your option) any later version.
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review
 the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
         for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
```

```
                or relpath in EXCLUDE_LIST
                or relpath in NOT_FSF_LIST
                or relpath in BY_HAND):
                # Ignore this file.
                pass
            else:
                result.append(relpath)
    return result


def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd
 = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output.  Typically, a lot of files do not have
    # a copyright notice :-(.  The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one.  For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('\n'):

            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
```

```
        if may_have_copyright_notice(filename):
            print line
      else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.

  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
  # 50 lines...
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
      if 'Copyright' in line:
        return True
      lineno += 1
      if lineno > 50:
        return False
  return False


def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
      print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...
```

```
  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

################################################################################
#
#
 Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
 files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)
```

```
# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h",
 "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
   "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
```

"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
"sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h",
"sim/ppc/basics.h",
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

```
if __name__ == "__main__":
  main()
```

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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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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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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

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute
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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.

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 implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system;
it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

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.

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write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
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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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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.

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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., 51 Franklin Street, Fifth Floor, Boston,

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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Preamble

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The licenses for most software and other practical works are designed
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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
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
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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

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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 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 for you, or provide you with 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.

3. 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.

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 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.

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.

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1.183 bluez 4.101

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1.184 pcre 8.35

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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1.185 libgpg-error 1.18

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1.187 gdb 7.7.1

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#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

```
/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target
 : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
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#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void i386bsd_store_inferior_registers
```

```
 (struct regcache *regcache,
          int regnum);

/* A prototype *BSD/i386 target.  */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
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#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
          int regnum);
extern
 void amd64bsd_store_inferior_registers (struct regcache *regcache,
          int regnum);
```

```
/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
```

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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 this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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

you distribute copies of the library, or if you modify it.

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

Because

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

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

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

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

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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.

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 implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;
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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.

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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.

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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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  Library General Public License for more details.

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  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:

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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!
@ignore
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@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man end

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@heading Preamble

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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.

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for you, or provide you with
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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
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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
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@c man end
```
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
```

```
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
   print "   It is created automatically by copying.awk.";
   print "   Modify copying.awk instead.  <== */";
   print ""
   print "#include \"defs.h\""
   print "#include \"command.h\""
   print "#include \"gdbcmd.h\""
   print ""
   print "static void show_copying_command (const char *, int);"
   print ""
   print "static void show_warranty_command (const char *, int);"
   print ""
   print "static void";
   print "show_copying_command (const char *ignore, int from_tty)";
   print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
   if ($0 ~ //)
     {
       printf "  printf_filtered (\"\\n\");\n";
     }
   else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
     {
       printf "  printf_filtered (\"";
       for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
       printf "%s\\n\");\n", $NF;
     }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {

  print "}";
   print "";
   print "static void";
   print "show_warranty_command (const char *ignore, int from_tty)";
   print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
   if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
     {
       printf "  printf_filtered (\"";
       for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
       printf "%s\\n\");\n", $NF;
     }
 }
END {
```

```
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";

  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
}
/* BSD Kernel Data Access Library (libkvm) interface.

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#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "process-stratum-target.h"
#include "value.h"
```

```
#include "gdbcore.h"
#include
 "inferior.h"          /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"

/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static
 const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};
```

```
class bsd_kvm_target final : public process_stratum_target
{
public:
 bsd_kvm_target () = default;

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
    const char *annex,
    gdb_byte *readbuf,
    const gdb_byte *writebuf,
    ULONGEST offset, ULONGEST len,
    ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target
 bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
    char *temp;

    filename = tilde_expand (arg);
    if (filename[0] != '/')
 {
```

```
  temp = concat (current_directory, "/", filename, (char *)NULL);
  xfree (filename);
  filename = temp;
 }
  }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
     write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
  error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
  if (core_kd)
   {
     if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
     core_kd = NULL;
   }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
   nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
```

```
 if (writebuf && nbytes > 0)
   nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
         const char *annex, gdb_byte *readbuf,
         const gdb_byte *writebuf,
         ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
   {
   case TARGET_OBJECT_MEMORY:
     {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
   return TARGET_XFER_EOF;
 else
   {
     *xfered_len = (ULONGEST)
 ret;
     return TARGET_XFER_OK;
   }
     }

   default:
     return TARGET_XFER_E_IO;
   }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
```

```
{
 struct pcb pcb;

 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
   {
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
     return;
   }

 /* On dumping core, BSD kernels store the faulting context (PCB)

 in the variable "dumppcb".  */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     /* Found dumppcb.  If it contains a valid context, return
  immediately.  */
     if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
 return;
   }

 /* Traditional BSD kernels have a process proc0 that should always
    be present.  The address of proc0's PCB is stored in the variable
    "proc0paddr".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_proc0paddr";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));
```

```
 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found proc0paddr.  */
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels
 for 5.0-RELEASE and later, the PCB no longer
    lives in `struct proc' but in `struct thread'.  The `struct
    thread' for the initial thread for proc0 can be found in the
    variable "thread0".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_thread0";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found thread0.  */
     nl[0].n_value += offsetof (struct thread, td_pcb);
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
```

```
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static
 void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
   error_no_arg (_("proc address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif

 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
   error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
   /* i18n: PCB == "Process Control Block".  */
   error_no_arg (_("pcb address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);
```

```
 target_fetch_registers (get_current_regcache (),
 -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
  register CUPPLY_PCB as the architecture-specific process control
  block interpreter.  */

void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
  add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.
```

```
   The pid field represents the kvm inferior instance.  Currently,
   we don't support multiple kvm inferiors, but we start at 1
   anyway.  The lwp field is set to != 0, in case the core wants to
   refer to the whole kvm inferior with ptid(1,0,0).

   If kvm is made to export running processes as gdb threads,
   the following form can be used:
   ptid (1, 1, 0) -> kvm inferior 1, in kernel
   ptid (1, 1, 1) -> kvm inferior 1, process 1
   ptid (1, 1, 2) -> kvm inferior 1, process 2
   ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
#! /usr/bin/env python

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#
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"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review
 the output is:
   % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
```

```
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
  result = []
  for gdb_dir in ('gdb', 'sim', 'include/gdb'):
     for root, dirs, files in os.walk(gdb_dir, topdown=True):
        for dirname in dirs:
           reldirname = "%s/%s" % (root, dirname)
           if (dirname in EXCLUDE_ALL_LIST
              or reldirname in EXCLUDE_LIST
              or reldirname in NOT_FSF_LIST
              or reldirname in BY_HAND):
              # Prune this directory from our search list.
              dirs.remove(dirname)
         for filename in files:
           relpath = "%s/%s" % (root, filename)
           if (filename in EXCLUDE_ALL_LIST
              or relpath in EXCLUDE_LIST
              or relpath in NOT_FSF_LIST
              or relpath in BY_HAND):
              # Ignore this file.
              pass
           else:
              result.append(relpath)
  return result


def update_files(update_list):
  """Update the copyright header of the files in the given list.

  We use gnulib's update-copyright script for that.
  """
  # We want to use year intervals in the copyright notices, and
  # all years should be collapsed to one single year interval,
  # even if there are "holes" in the list of years found in the
  # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
  os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

  # Perform the update, and save the output in a string.
```

```
  update_cmd
= ['bash', 'gdb/gnulib/import/extra/update-copyright']
  update_cmd += update_list

  p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                       stderr=subprocess.STDOUT)
  update_out = p.communicate()[0]

  # Process the output.  Typically, a lot of files do not have
  # a copyright notice :-(.  The update-copyright script prints
  # a well defined warning when it did not find the copyright notice.
  # For each of those, do a sanity check and see if they may in fact
  # have one.  For the files that are found not to have one, we filter
  # the line out from the output, since there is nothing more to do,
  # short of looking at each file and seeing which notice is appropriate.
  # Too much work! (~4,000 files listed as of 2012-01-03).
  update_out = update_out.splitlines()
  warning_string = ': warning: copyright statement not found'
  warning_len = len(warning_string)

  for line in update_out:
     if line.endswith('\n'):

      line = line[:-1]
     if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
           print line
     else:
        # Unrecognized file format. !?!
        print "*** " + line


def may_have_copyright_notice(filename):
  """Check that the given file does not seem to have a copyright notice.

  The filename is relative to the root directory.
  This function assumes that the current working directory is that root
  directory.

  The algorigthm is fairly crude, meaning that it might return
  some false positives.  I do not think it will return any false
  negatives...  We might improve this function to handle more
  complex cases later...
  """
  # For now, it may have a copyright notice if we find the word
  # "Copyright" at the (reasonable) start of the given file, say
  # 50 lines...
```

```
  MAX_LINES = 50

  fd = open(filename)

  lineno = 1
  for line in fd:
      if 'Copyright' in line:
         return True
      lineno += 1
      if lineno > 50:
         return False
  return False


def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

##############################################################################
#
#
 Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
```

```
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all
 files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
```

"sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
"sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
"sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
"sim/arm/armopts.h",
"sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
"sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
"sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
"sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
"sim/arm/arminit.c",
"sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
"sim/common/cgen-accfp.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/idecode_fields.h",
"sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",

```
  "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
  "sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
  "sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
  "sim/ppc/emul_unix.h", "sim/ppc/words.h",
 "sim/ppc/basics.h",
  "sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
  "sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
  "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
  "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
  "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
  "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
  main()
```

```
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```

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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

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

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

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

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

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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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(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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Otherwise, if the work is a derivative of the Library, you may
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1.189 lsof 4.87

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1.190 libcap 2.22

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1.191 protobuf 3.7.1

1.192 wpa-supplicant 2.1-devel

1.192.1 Available under license :

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1.193 glib 2.28.8

1.194 uclibc unknown

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Ty Coon, President of Vice

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```
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*/
/* _setjmp in setjmp.S */
/* setjmp in setjmp.S */
From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
 by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
Received: from raptor.research.att.com (raptor.research.att.com
 [135.207.23.32])
 by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB
 for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
 by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
 for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra

Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.195 direct-fb unknown

1.195.1 Available under license :

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1.196 pam 0.82.2

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1.197 lcms unknown

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1.198 gsoap 2.8

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1.200 qt 5.4.2

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1.205 libcap 1.10

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1.209 shadow 4.2.1

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1.212 libxi 1.7.9-1.el7

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1.213 fdisk 2.28.2

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USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
libblkid/src/partitions/libblkid_la-bsd.lo - a libtool object file
Generated by libtool (GNU libtool) 2.4.6
#
Please DO NOT delete this file!
It is necessary for linking the library.

# Name of the PIC object.
pic_object='.libs/libblkid_la-bsd.o'

# Name of the non-PIC object
non_pic_object=none
libfdisk/src/libfdisk_la-bsd.lo: libfdisk/src/bsd.c \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdc-predef.h \
config.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/unistd.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/features.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/cdefs.h \

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wordsize.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/long-double.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs-hard.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix_opt.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/environments.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/typesizes.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stddef.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/confname.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_posix.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_core.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/unistd.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdio.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/libc-header-start.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdarg.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__fpos_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__mbstate_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__fpos64_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__FILE.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/FILE.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_FILE.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/types/cookie_io_functions_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sys_errlist.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio2.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdlib.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/waitflags.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/waitstatus.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn-common.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/locale_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__locale_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/types.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clock_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clockid_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/time_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/timer_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-intn.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/endian.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/endian.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/byteswap.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uintn-identity.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/sys/select.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigset_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigset_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timeval.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timespec.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select2.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/thread-shared-types.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes-arch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/alloca.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-bsearch.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-float.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/string.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/strings.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/strings_fortified.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/string_fortified.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/fcntl.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl-linux.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_iovec.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/falloc.h \

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stat.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl2.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/errno.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno-base.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/error_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/limits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/syslimits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/limits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix1_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/local_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/limits.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix2_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/xopen_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uio_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/signal.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum-generic.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/types/sig_atomic_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/siginfo_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigval_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-arch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts-arch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigval_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigevent_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigevent-consts.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigaction.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigcontext.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/sigcontext.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/stack_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ucontext.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigstack.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ss_flags.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_sigstack.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigthread.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/param.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/param.h \
include/nls.h \

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/locale.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/locale.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/libintl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/langinfo.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/nl_types.h
\
include/blkdev.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctl.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctl-types.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ttydefaults.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/stat.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/statx.h \
libfdisk/src/fdiskP.h include/c.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdint.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdint.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wchar.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-uintn.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/assert.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/err.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/sysmacros.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sysmacros.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/time.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/time.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/timex.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_tm.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_itimerspec.h \
libfdisk/src/libfdisk.h include/list.h include/debug.h include/pt-mbr.h \
include/pt-bsd.h include/all-io.h include/c.h

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdc-predef.h:

config.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/unistd.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/features.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/cdefs.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wordsize.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/long-double.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs-hard.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix_opt.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/environments.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/typesizes.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stddef.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/confname.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_posix.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_core.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/unistd.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdio.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/libc-header-start.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdarg.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__fpos_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__mbstate_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__fpos64_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/cookie_io_functions_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sys_errlist.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdlib.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/waitflags.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/waitstatus.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn-common.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/locale_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__locale_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clock_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clockid_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/time_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/timer_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-intn.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/endian.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/endian.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/byteswap.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uintn-identity.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/select.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigset_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigset_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timeval.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timespec.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/thread-shared-types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/alloca.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-bsearch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-float.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/string.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/strings.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/strings_fortified.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/string_fortified.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/fcntl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl-linux.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_iovec.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/falloc.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stat.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno-base.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/error_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/syslimits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix1_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/local_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix2_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/xopen_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uio_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/signal.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum-generic.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sig_atomic_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/siginfo_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigval_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigval_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigevent_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigevent-consts.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigaction.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigcontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/sigcontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/stack_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ucontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigstack.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ss_flags.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_sigstack.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigthread.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/param.h:

include/nls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/locale.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/locale.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/libintl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/langinfo.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/nl_types.h:

include/blkdev.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctl-types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ttydefaults.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/stat.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/statx.h:

libfdisk/src/fdiskP.h:

include/c.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdint.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdint.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wchar.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/stdint-uintn.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/assert.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/err.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/sysmacros.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sysmacros.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/time.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/time.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/timex.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_tm.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_itimerspec.h:

libfdisk/src/libfdisk.h:

include/list.h:

include/debug.h:

include/pt-mbr.h:

include/pt-bsd.h:

include/all-io.h:

include/c.h:

/*
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* SUCH DAMAGE.
*/
libfdisk/src/libfdisk_la-bsd.lo - a libtool object file
Generated by libtool (GNU libtool) 2.4.6
#
Please DO NOT delete this file!
It is necessary for linking the library.

# Name of the PIC object.
pic_object='.libs/libfdisk_la-bsd.o'

# Name of the non-PIC object
non_pic_object=none
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                 Version 2, June 1991

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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it
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/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/alloca.h \

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-bsearch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-float.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdint.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdint.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wchar.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-uintn.h \
libblkid/src/partitions/partitions.h libblkid/src/blkidP.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/dirent.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/dirent.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix1_lim.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/local_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/limits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/stat.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stat.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/statx.h \
include/c.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/limits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/syslimits.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/limits.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix2_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/xopen_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uio_lim.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/unistd.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix_opt.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/environments.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/confname.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_posix.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_core.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/unistd.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/errno.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno-base.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/error_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/assert.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/err.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/sysmacros.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sysmacros.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/fcntl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl-linux.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_iovec.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/falloc.h

\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl2.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/time.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/time.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/timex.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_tm.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_itimerspec.h \
include/bitops.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/param.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/signal.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum-generic.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sig_atomic_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/siginfo_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigval_t.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-arch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts-arch.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigval_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigevent_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigevent-consts.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigaction.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigcontext.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/asm/sigcontext.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/stack_t.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ucontext.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigstack.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ss_flags.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_sigstack.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigthread.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/param.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/byteswap.h
\
include/blkdev.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctls.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctl.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctl.h
\
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctl-types.h \
/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ttydefaults.h \
include/debug.h libblkid/src/blkid.h include/list.h include/pt-mbr.h \
include/pt-bsd.h

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdc-predef.h:

config.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdio.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/libc-header-start.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/features.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/cdefs.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wordsize.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/long-double.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/gnu/stubs-hard.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stddef.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdarg.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/typesizes.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__fpos_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__mbstate_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/types/__fpos64_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_FILE.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/cookie_io_functions_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sys_errlist.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdio2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/string.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/locale_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__locale_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/strings.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/strings_fortified.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/string_fortified.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdlib.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/waitflags.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/waitstatus.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/floatn-common.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clock_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/clockid_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/time_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/timer_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-intn.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/endian.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/endian.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/byteswap.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uintn-identity.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/select.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/bits/types/sigset_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigset_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timeval.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_timespec.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/select2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/thread-shared-types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/pthreadtypes-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/alloca.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-bsearch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib-float.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdlib.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include/stdint.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/stdint.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/wchar.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stdint-uintn.h:

libblkid/src/partitions/partitions.h:

libblkid/src/blkidP.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/dirent.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/dirent.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix1_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/local_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/stat.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/stat.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/statx.h:

include/c.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/lib/gcc/arm-cisco-linux-gnueabihf/8.3.0/include-fixed/syslimits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/limits.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix2_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/xopen_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/uio_lim.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/unistd.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/posix_opt.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/environments.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/confname.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_posix.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/getopt_core.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/unistd.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/errno-base.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/error_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/assert.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/err.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-

gnueabihf/sysroot/usr/include/sys/sysmacros.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sysmacros.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/fcntl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl-linux.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_iovec.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/falloc.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/fcntl2.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/time.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/time.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/timex.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_tm.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_itimerspec.h:

include/bitops.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/signal.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/signum-generic.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sig_atomic_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/siginfo_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/__sigval_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/siginfo-consts-arch.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigval_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/sigevent_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigevent-consts.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigaction.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigcontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/sigcontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/stack_t.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ucontext.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigstack.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ss_flags.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/types/struct_sigstack.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/sigthread.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/linux/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/param.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/byteswap.h:

include/blkdev.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm/ioctls.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctls.h:

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/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/asm-generic/ioctl.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/bits/ioctl-types.h:

/data/.cache/artifactory/toolchain/arm_gcc-8.3.0_glibc-2.28-x86_64-linux-gnueabihf/arm-cisco-linux-gnueabihf/sysroot/usr/include/sys/ttydefaults.h:

include/debug.h:

libblkid/src/blkid.h:

include/list.h:

include/pt-mbr.h:

include/pt-bsd.h:
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1.215 icu 53

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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

```
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

1.216 dnsmasq 2.46

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.221 libcap 2.24

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CUP Parser Generator for Java v 0.10k

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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
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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.
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6. As an exception to the Sections above, you may also combine or
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of these things:

a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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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,
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c) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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xwd v1.0.7

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1.229 libvmtools 11.0.5.17716

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xwd v1.0.7

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Mesa 3-D Graphics Library v19.2.1

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 <nature>org.eclipse.pde.FeatureNature</nature>
</natures>
</projectDescription>
```

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 *
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jopt-simple v5.0.4

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The Unix configuration script "configure" was produced with GNU Autoconf.
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It appears that the arithmetic coding option of the JPEG spec is covered
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The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
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#
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
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src/bdf/module.mk
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src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
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src/pcf/pcfread.h
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src/pcf/README
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#
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
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src/gzip/zutil.h
#
src/tools/apinames.c
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1.234 openssl 0.9.8k

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1.235 e2fsprogs 1.45.6

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

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

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#
This is 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)
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 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
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Gadi Oxman, August 1995

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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>.

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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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1.239 pam 0.82.2

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1.240 libassuan 2.1.0

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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.

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
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It may happen that this requirement contradicts the license
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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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the Library and of the other library facilities is otherwise
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1.244 gtk 2.24.31

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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

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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.

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Sections 1 and 2 above); and, if the work is an executable linked
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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.)

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subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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 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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1.246 libnl3 3.2

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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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
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distribute the source code, even though third parties are not
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When a "work that uses the Library" uses material from a header file
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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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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1.249 sipcc 1.0.0SM0.1

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Mesa 3-D Graphics Library v19.2.1

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****

---
include/GL/gl.h :

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include/GL/glext.h
include/GL/glxext.h
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 /*****************************************************************************
  *
  * This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50
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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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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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 for merging the nxt2002 and nxt2004 modules into a
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+ many more (please mail me if you are missing in this list and would
like to be mentioned)
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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
```

```
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
```

* M. Welsh, 6 July 1996
*
*
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*
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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.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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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.

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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1.270 linux-kernel 3.16.38

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+ many more (please mail me if you are missing in this list and would
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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
```

```
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/
```

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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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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 $Revision: 1.1 $ $Date: 1999/08/20 11:00:11 $
*
* 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
*
*
*/
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
 for the initial saa7146 driver and it's recent overhaul

Christian Theiss
 for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
 for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
 for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
 for CyberLogin for Linux which allows logging onto EON
 (in case you are wondering where CyberLogin is, EON changed its login
 procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
 for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
 for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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 for many bugfixes in the generic DVB Core, frontend drivers and
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 for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
 for the nxt2004 frontend driver

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 for the or51211 and or51132 frontend drivers, and
 for merging the nxt2002 and nxt2004 modules into a
 single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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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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Note that it is possible for a library to be covered by the ordinary

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1.272 linux-kernel 3.12.33

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* 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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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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1.274 linux-kernel 3.4.110

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+ many more (please mail me if you are missing in this list and would
like to be mentioned)
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omitted, let us know by sending a mail to omar.ramirez@ti.com or
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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
```

```
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.275 lcms 2.11

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functions (ten lines or less in length), then the use of the object
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the work with the complete corresponding
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properly with a modified version of the library, if
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1.277 wpa-supplicant 0.8.0.79

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wpa_supplicant and hostapd

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1.278 clang 6.0.1

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK: // %bb.0:
; CHECK-NEXT: ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT: mov v0.d[1], v0.d[0]
; CHECK-NEXT: ret
 %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>

```
 %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
 %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
 ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
 %L34 = load i8, i8* %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

CF246:                                            ; preds = %CF246, %BB
 %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
 br i1 undef, label %CF246, label %CF248

CF248:                                            ; preds = %CF248, %CF246
 store i8 %Sl163, i8* %0
 br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI
;
 RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
```

legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1,
 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpavgb
 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vmovdqu %ymm1, (%rax)
; CHECK-NEXT:    vmovdqu %ymm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
 ret void
}


define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT:    vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1,
 i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, <64 x i8>* undef, align 4
 ret void
}

define void @pmaddwd_32_256(<32
```

```
 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32
 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-
width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13,
 i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
```

```
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr)
 "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, <64 x i8>* %xptr
 %y = load <64 x i8>, <64 x i8>* %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, <64 x i8>* %zptr
 ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
```

```
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB8_1: # %vector.body
; CHECK-NEXT:
   # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0,
 %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
 %8 = bitcast i8* %7 to <32 x i8>*
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
```

```
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22,
 i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    movl %edx, %eax
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    xorl %ecx, %ecx
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB9_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
```

```
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:    addq $32, %rcx
; CHECK-NEXT:    cmpq %rcx, %rax
; CHECK-NEXT:    jne .LBB9_1
; CHECK-NEXT:
  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, i8* %0, i64 %index
 %5 = bitcast i8* %4 to <32 x i8>*
 %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
 %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
```

```
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0,
 %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
```

```
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi
 = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %.lcssa = phi
 <16 x i32> [ %10, %vector.body ]
 %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
```

```
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:    .p2align 4, 0x90
; CHECK-NEXT:  .LBB11_1: # %vector.body
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:    addq $4, %rax
; CHECK-NEXT:    jne .LBB11_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:
   vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
 %1 = bitcast i8* %0 to <16 x i8>*
 %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
 %4 = bitcast i8* %3 to <16 x i8>*
 %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32>
```

```
 %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1,
i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %.lcssa = phi <16 x i32> [ %10, %vector.body ]
 %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
 %bin.rdx2 = add <16
 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
;
 CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
```

```
 ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
;
 CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
```

```
; CHECK-NEXT:
 vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
;
 CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
```

```
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:
   vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
;
 CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
```

```
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, <16 x double>* %res
 ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask =
 fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32tosb_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi),
```

```
 %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, <16 x float>* %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL:
 mul256:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ym
m0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} ymm5 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ym
m0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-AVX512-NEXT:    vpmullw %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT:    vmovdqa {{.*#+}}
 ymm5 = [255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:    vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT:    vpunpcklbw {{.*#+}} ymm3 =
```

ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 = ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
;
CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw
%ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13

],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[31]
;
CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm3 = ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm1 = ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-VBMI-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} ymm3 = [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
;
CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT: vpunpcklbw {{.*#+}} ymm2 = ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-VBMI-NEXT: vpunpcklbw
{{.*#+}} ymm0 = ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512: # %bb.0:

; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],
zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
[26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[
45],zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[
63]
;
 CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
[255,255,255,

```
mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[
63]
; CHECK-VBMI-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
;
 CHECK-VBMI-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} zmm1 =
zmm1[0],zmm0[0],zmm1[1],zmm0[1],zmm1[2],zmm0[2],zmm1[3],zmm0[3],zmm1[4],zmm0[4],zmm1[5],zmm0[5]
,zmm1[6],zmm0[6],zmm1[7],zmm0[7],zmm1[16],zmm0[16],zmm1[17],zmm0[17],zmm1[18],zmm0[18],zmm1[19]
,zmm0[19],zmm1[20],zmm0[20],zmm1[21],zmm0[21],zmm1[22],zmm0[22],zmm1[23],zmm0[23],zmm1[32],zmm
0[32],zmm1[33],zmm0[33],zmm1[34],zmm0[34],zmm1[35],zmm0[35],zmm1[36],zmm0[36],zmm1[37],zmm0[37],
zmm1[38],zmm0[38],zmm1[39],zmm0[39],zmm1[48],zmm0[48],zmm1[49],zmm0[49],zmm1[50],zmm0[50],zmm1
[51],zmm0[51],zmm1[52],zmm0[52],zmm1[53],zmm0[53],zmm1[54],zmm0[54],zmm1[55],zmm0[55]
; CHECK-VBMI-NEXT:    vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-VBMI-NEXT:    vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:
   vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,
46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:    vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:    vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
 %d = load <64 x i8>, <64 x i8>* %a
 %e = load <64 x i8>, <64 x i8>* %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, <64 x i8>* %c
 ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-
width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:    vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:    retq
 %mask = icmp eq <4 x i32> %trigger, zeroinitializer
 %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*
 %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
 ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)
```

```
define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:    vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:    vpmovqd %ymm2, %xmm1
; CHECK-NEXT:    vpmovqd %ymm3, %xmm2
; CHECK-NEXT:    vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:    retq
 %a = load <16 x i64>, <16 x i64>* %x
 %b = trunc <16 x i64> %a to <16 x i32>
 ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:
     # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqb %ymm3, %xmm3
; CHECK-NEXT:    vpmovqb %ymm2, %xmm2
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i64>, <16 x i64>* %x
 %b = trunc <16 x i64> %a to <16 x i8>
 ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovdb %ymm1, %xmm1
; CHECK-NEXT:    vpmovdb %ymm0, %xmm0
```

```
;
 CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = trunc <16 x i32> %a to <16 x i8>
 ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <8 x i64>, <8 x i64>* %x
 %b = trunc <8 x i64> %a to <8 x i8>
 ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqw %ymm1,
 %xmm1
; CHECK-NEXT:    vpmovqw %ymm0, %xmm0
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <8 x i64>, <8 x i64>* %x
 %b = trunc <8 x i64> %a to <8 x i16>
 ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT:    vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:    vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:    retq
```

```
 %a = load <8 x i64>, <8 x i64>* %x
 %b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
;
 CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32
16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:
   vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, <32 x i16>* %x
 %b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
```

```
; CHECK-NEXT:    vpsraq $48, 32(%rdi), %ymm1
; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm2
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:    vpermi2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:    retq
  %a = load <8 x i64>, <8 x i64>* %x
 %b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %x
 %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32
16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:
   vpsraw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsraw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpacksswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, <32 x i16>* %x
 %b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32 x i8> %c
}
```

```
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256"
 {
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zer
o,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xm
m0[15],zero
; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm3 =
xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm1 =
xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxbq {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zer
o,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero,zero,zero
;
 CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = zext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, <16 x i64>* %y
 ret void
}

define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovsxbw %xmm0, %ymm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm2
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
; CHECK-NEXT:    vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:    vpmovsxwq %xmm0, %ymm0
; CHECK-NEXT:    vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:    vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT:
   vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
```

```
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = sext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, <16 x i64>* %y
 ret void
}

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %p
 %y = load <8 x i64>, <8 x i64>* %q
 %a = icmp eq <8 x i16> %s, %t
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64>
 %y
 store <8 x i64> %b, <8 x i64>* %r
 ret void
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>*
%r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, <8 x i64>* %p
 %y = load <8 x i64>, <8 x i64>* %q
 %a = icmp eq <8 x i32> %s, %t
```

```
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, <8 x i64>* %r
 ret void
}

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x
i32>* %r) "min-legal-vector-width"="256"
 {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, <16 x i32>* %p
 %y = load <16 x i32>, <16 x i32>* %q
 %a = icmp eq <16 x i8> %s, %t
 %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
 store <16 x i32> %b, <16 x i32>* %r
 ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x
i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:
   vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, <16 x i32>* %p
 %y = load <16 x i32>, <16 x i32>* %q
 %a = icmp eq <16 x i16> %s, %t
 %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
 store <16 x i32> %b, <16 x i32>* %r
```

```
 ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, %xmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32
 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16 x i8>
 ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256"
{
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, <16 x i32>* %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32
 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16 x i8>
 store <16 x i8> %f, <16 x i8>* %q
 ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
```

```
; CHECK-LABEL: v64i1_argument_return:
; CHECK:       # %bb.0:
; CHECK-NEXT:    retq
 ret <64 x i1> %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT:    vptestnmb %ymm1, %ymm1,
 %k0
; CHECK-NEXT:    kshiftrd $1, %k0, %k1
; CHECK-NEXT:    movq $-3, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftlq $63, %k0, %k2
; CHECK-NEXT:    kshiftrq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-5, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $3, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $61, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-9, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $2, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $60, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-17, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $5, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $59, %k2, %k2
;
 CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $4, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
```

```
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $57, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63,
 %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $11, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $10, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $52, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:
```

```
   kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $13, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $51, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $12, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $50, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16385, %rax # imm = 0xBFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $15, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $49, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $14, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $48, %k2, %k2
; CHECK-NEXT:
   korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65537, %rax # imm = 0xFFFEFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $17, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFBFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
```

```
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:
   kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $43, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $20, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $42, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4194305, %rax # imm = 0xFFBFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $23, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $41, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
;
 CHECK-NEXT:    movq $-8388609, %rax # imm = 0xFF7FFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $22, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $40, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $24, %k0, %k2
```

```
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $38, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd
 $27, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $26, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $29, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $28, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:
   movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $31, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $33, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k2
; CHECK-NEXT:    vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftrd $30, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0, %k0
; CHECK-NEXT:    korq %k0, %k2, %k0
```

```
; CHECK-NEXT:    movabsq $-4294967297, %rax # imm = 0xFFFFFFFEFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $1, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8589934593, %rax # imm = 0xFFFFFFFDFFFFFFFF
; CHECK-NEXT:
 kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k2
; CHECK-NEXT:    kshiftrq $30, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17179869185, %rax # imm = 0xFFFFFFFBFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $3, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $29, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-34359738369, %rax # imm = 0xFFFFFFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $2, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $28, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-68719476737, %rax # imm = 0xFFFFFFEFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:
  kshiftrq $27, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-137438953473, %rax # imm = 0xFFFFFFDFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $4, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $26, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-274877906945, %rax # imm = 0xFFFFFFBFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $7, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
```

```
; CHECK-NEXT:    kshiftrq $25, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-549755813889, %rax # imm = 0xFFFFFF7FFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $6, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $24, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1099511627777, %rax
 # imm = 0xFFFFFEFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $9, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $23, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $8, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $22, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $11, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $21, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:
   kshiftrd $10, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $20, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $13, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $19, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
```

```
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $12, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $18, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $15, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq
 $17, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $14, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $16, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $17, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $15, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $16, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $14, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1125899906842625,
 %rax # imm = 0xFFFBFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $19, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $13, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $18, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $12, %k2, %k2
```

```
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $21, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $11, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq
 %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $10, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $23, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $9, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-36028797018963969, %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $22, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $8, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $25, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2,
 %k2
; CHECK-NEXT:    kshiftrq $7, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $24, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $6, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
```

```
; CHECK-NEXT:    kshiftrd $27, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $5, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $26, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $4, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:
   movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $29, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $3, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $28, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $2, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $31, %k1, %k2
; CHECK-NEXT:    kshiftlq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $30, %k1, %k1
; CHECK-NEXT:    kshiftlq $1, %k0, %k0
; CHECK-NEXT:    kshiftrq $1, %k0, %k0
; CHECK-NEXT:
   kshiftlq $63, %k1, %k1
; CHECK-NEXT:    korq %k1, %k0, %k1
; CHECK-NEXT:    vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT:    kshiftrq $32, %k1, %k1
; CHECK-NEXT:    vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %a = load <64 x i8>, <64 x i8>* %x
 %b = icmp eq <64 x i8> %a, zeroinitializer
 %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32
```

```
22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39,
i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32
55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
 call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 1, <64 x i1> %shuf)
  ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:       # %bb.0:
; CHECK-NEXT:    kmovq {{.*}}(%rip), %k0
; CHECK-NEXT:    #APP
; CHECK-NEXT:    #NO_APP
; CHECK-NEXT:    kmovq %k0, {{.*}}(%rip)
; CHECK-NEXT:    movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT:    retq
 %1 = alloca i32, align 4
 %2 = load i64, i64* @mem64_src, align 8
 %3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
 store i64 %3, i64* @mem64_dst, align 8
 %4 = load i32, i32* %1, align 4
 ret i32 %4
}
; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
 %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
                                        metadata !"fpexcept.strict")
                                        strictfp
 ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
```

```
; RUN: opt -S -passes='attributor' -aa-pipeline='basic-aa' -attributor-disable=false -attributor-max-iterations-verify -attributor-max-iterations=2 < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
;
 CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly
 align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
```

```
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
 [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64
32, i1 false)
; CHECK-NEXT:
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias
nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree
nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
```

```
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>*
 %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>,
 align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64
32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias
nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>,
 <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
```

```
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
;
 CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}
```

```
; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8
 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align
 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}
```

```
; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
;
 CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree
 nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
```

```
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
;
 CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8*
 nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture
nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc
```

```
 void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly
%arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca
 <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64
32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture
nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8
 x i64>* %tmp2, <8 x i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
```

```
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes
 #5 = { argmemonly nounwind }
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0
 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
```

```
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64
 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
;
 CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
```

```
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
 i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca
 <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
```

```
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret
 void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8*
 align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x
i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
```

```
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8
 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0,
 i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x
i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
```

```
<8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
;
 CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8
 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:
```

```
   store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
 store <8 x i64> %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store
 <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, <8 x i64>* %arg1
```

```
 store <8 x i64>
 %tmp, <8 x i64>* %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT:    call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>,
 align 32
 %tmp3 = bitcast <8 x i64>* %tmp to i8*
 call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
 %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
 ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
 "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
```

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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
 br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:                                 ; preds = %entry
 br label %while.body

while.body:                                       ; preds = %exit.2, %while.body.lr.ph
 %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
 switch i32 undef, label %exit [
```

```
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
 ]

sw.bb.i:                                          ; preds = %while.body
 unreachable

sw.bb3.i:                                         ; preds = %while.body
 unreachable

exit:
                                                  ; preds = %while.body
 switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
 ]

sw.bb.i17:                                        ; preds = %.exit
 %0 = bitcast %struct.0* %lsr.iv to i32*
 %1 = load i32, i32* %0, align 4
 unreachable

sw.bb3.i20:                                       ; preds = %exit
 %2 = bitcast %struct.0* %lsr.iv to i8**
 %3 = load i8*, i8** %2, align 4
 unreachable

exit.2:                                           ; preds = %exit
 %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
 br label %while.body

while.end:                                        ; preds = %entry
 ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
 ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
 ret void
}

define internal void @innerNoAttribute() {
 ret void
```

```
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
 call void @innerSmall()
 ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
 call void @innerNoAttribute()
 ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK:
 define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

 ; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0
```

```
 ; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
 %flt = sitofp <16 x i32>
 %in to <16 x double>
 %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
 ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
 %flt = sitofp <4 x i64> %in to <4 x double>
 %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
 ret <4 x double> %res
}
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-
prefixes=CHECK,VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-
prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
```

```
; VEC256-NEXT:
  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16>
 undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of
 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
```

```
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found
 an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D
 = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
```

```
i32>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1
 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %E =
 sext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction:
 ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
```

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16>
 undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}
# People who have agreed to one of the CLAs and can contribute patches.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
Names should be added to this file only after verifying that
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the appropriate Contributor License Agreement, found here:
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https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.
#
Names should be added to this file as:
Name <email address>
#
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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0

```
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8*
 %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT:  store i8 %3, i8* %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT:  store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
entry:
 %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
 %1 = load volatile
 i8, i8* inttoptr (i32 805874692 to i8*)
 %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
 %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
 %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
 store i8 %4, i8* inttoptr(i32 805873688 to i8*)
 store i8 %3, i8* inttoptr(i32 805873719 to i8*)
 store i8 %2, i8* inttoptr(i32 805873720 to i8*)
 store i8 %1, i8* inttoptr(i32 805873727 to i8*)
 store i8* inttoptr(i32 805874800 to i8*), i8** @goo
 ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
```

```
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32
 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
entry:
 %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
 %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
 %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
 %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
 %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
 %5 = load volatile i16, i16* inttoptr (i32 805874774
 to i16*), align 2
 ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT:  %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT:  %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT:  %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT:  %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT:  %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C1]],
```

12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
 %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
 %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
 %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
 %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
 %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
 %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
 ret void
}
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
; CHECK-LABEL: TestSelect:
; CHECK   movaps 16(%rsp), %xmm1
; CHECK-NEXT   callq __subtf3
; CHECK-NEXT   testl %ebx, %ebx
; CHECK-NEXT   jg .LBB0_2
; CHECK-NEXT # %bb.1:
; CHECK-NEXT   movaps .LCPI0_0(%rip), %xmm0
; CHECK-NEXT .LBB0_2:
; CHECK-NEXT   addq $32, %rsp

```
; CHECK-NEXT   popq %rbx
; CHECK-NEXT   retq
}

define fp128 @TestFabs(fp128 %a) {
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
; CHECK-LABEL: TestFabs:
;
 CHECK      andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
 %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK      andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK      movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}
```

1.279 cryptsetup 2.3.4

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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the work with the complete corresponding
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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
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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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Library" must include any data and utility programs needed for
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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
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use both them and the Library together in an executable that you
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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1.280 libsrtp 2.3.0

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*
*/

1.281 libjpeg 9d

1.281.1 Notifications :

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

1.281.2 Available under license :

The Independent JPEG Group's JPEG software
==

README for release 9c of 14-Jan-2018
====================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,

Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

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

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

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty,
terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

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

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

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

OVERVIEW

========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision
for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

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

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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program, you must acknowledge somewhere
in your documentation that
you've used the IJG code.

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software".

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

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

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

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

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

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in
that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

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

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

JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.
IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites,
including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
==========

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

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

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

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

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

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

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

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

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,
together with ITU-T SG16) currently
promotes different formats containing
the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual
requirements for the maintenance of the original JPEG specification.
Furthermore,
the ISO committee pretends to "ensure interoperability" with
their standards which is not true because their "standards" support only
application-specific and proprietary use cases and contain mathematically
incorrect code.

There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and
are incompatible with formats supported by actual IJG libjpeg distributions.

One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of
misleading, incorrect and illegal
distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and
legal right to foreclose on certain standardization bodies and other
institutions or corporations that knowingly perform substantial and
systematic deceptive acts and practices, fraud, theft, and damaging of the
value of the people of this planet without their knowing, willing and
intentional consent.
The titles, ownership, and rights of these institutions and all their assets
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foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value
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the people is subordinate
to any artificial principality, corporate fiction
or the special interest of another without their appropriate knowing,
willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

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

TO DO
=====

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

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

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

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

Found in path(s):
* /jpegsrc-v9d-tar-gz/jpeg-9d/jdct.h

1.282 libjpeg 8d

1.282.1 Available under license :

This is Debian's prepackaged version of the `jpeg library' by the Independent
JPEG Group.

This package was created by Mark Mickan <mmickan@debian.org> from sources
which can be found at ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz

It is partly based on the libjpeg6a package originally put together by
Andy Guy <awpguy@acs.ucalgary.ca> and later maintained by Mark Mickan.

Current Debian maintainer is Bill Allombert <ballombe@debian.org>.

LEGAL ISSUES [from README supplied with source - MM]
==========

In plain English:

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

In legalese:

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

This software is copyright (C) 1991-2010, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user
accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

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

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

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

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
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,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

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

1.283 libjpeg 8b

1.283.1 Available under license :

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

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
*
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2017, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
*
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in

* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* Modified 2000-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdtarga.c
No license file was found, but licenses were detected in source scan.

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

* Modified 2009-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jutils.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).

*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modification developed 2003-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
*   C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
*   Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
*   Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies
 and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
*
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
*
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers
 (pass 2) and/or final/initial
* shifting.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases

* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdsample.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library.  These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c.  But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdapimin.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdinput.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
```

```
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding).  The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdinput.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdhuff.c
No license file was found, but licenses were detected in source scan.

```
/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform).  In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
```

```
* on each row (or vice versa, but it's more convenient to emit a row at
* a time).  Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
*   C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
*   Algorithms with 11 Multiplications",
 Proc. Int'l. Conf. on Acoustics,
*   Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling
 from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 1997-2012 by Guido Vollbeding.
```

* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jerror.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
*   * pool-based allocation and freeing of memory;
*   * policy decisions about how to divide available memory among the
*   virtual arrays;

*   * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is
 system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

```
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrppm.c
No license file was found, but licenses were detected in source scan.

```
/*
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
*************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,   *
* this code has been modified to output "uncompressed GIF" files.        *
* There is no trace of the LZW algorithm in this file.                   *
*************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS
 distribution
* of Feb. 1991.  That file contains the following copyright notice:
*    Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
*    Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
*    Copyright (C) 1989 by Jef Poskanzer.
*    Permission to use, copy, modify, and distribute this software and its
*    documentation for any purpose and without fee is hereby granted, provided
*    that the above copyright notice appear in all copies and that both that
*    copyright notice and this permission notice appear in supporting
*    documentation.  This software is provided "as is" without express or
*    implied warranty.
*
* We are also required to state that
*    "The Graphics Interchange Format(c) is the Copyright property of
```

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrgif.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jquant2.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: FILE LIST

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

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

THE JPEG LIBRARY
==========

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional
configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJG .c files to reference
system include files.
jpegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

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

C source code files:

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

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

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.

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

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdhuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation
selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.c Inverse DCT using faster, less accurate integer method.
jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

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

jmemmgr.c relies on a system-dependent memory management module. The IJG

distribution
includes the following implementations of the system-dependent
module:

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

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

Non-C source code files:

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

CJPEG/DJPEG/JPEGTRAN
====================

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional
error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

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

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).

rdppm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

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

RDJPGCOM/WRJPGCOM
==========

C source
 code files:

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

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

ADDITIONAL FILES
==========

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

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

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

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile

install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file
 for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
libjpeg.pc.in libjpeg.pc pkg-config file input for configure.
aclocal.m4 M4 macro definitions for use with Autoconf.

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

test*.* Source and comparison files for confidence test.
 These are binary image files, NOT text files.

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
* jerror.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2012-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jerror.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdatadst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/ckconfig.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
No license file was found, but licenses were detected in source scan.

```
/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform).  In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time).  Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm
 is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README).  The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs.  These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries.  The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values.  The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jidctfst.c
No license file was found, but licenses were detected in source scan.

```
/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
```

* Modified 2015-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcarith.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

```
/*
* transupp.h
*
* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
```

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jcmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for

* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcapimin.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

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

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

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script
will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

TABLE OF CONTENTS

Before you start
Configuring the software:
using the automatic "configure" script
using one of the supplied jconfig and makefile files
by hand

Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START

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

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

CONFIGURING THE SOFTWARE

To configure the IJG code for your system, you need to create two files:
 * jconfig.h: contains values for system-dependent #define symbols.
 * Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other
substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
 * On a Unix system, you can just run the "configure" script.
 * We provide sample jconfig
 files and makefiles for popular machines;
   if your machine matches one of the samples, just copy the right sample
   files to jconfig.h and Makefile.
 * If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type
 ./configure

and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
 sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

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

*
 Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
 ./configure --disable-shared
If you want to build libjpeg only as a shared library, say
 ./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
 ./configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
 ./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
 ./configure CFLAGS='-O2'
if you want to compile without debugging support.

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

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

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

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

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

Makefile jconfig
file System and/or compiler

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

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For
more info see
the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

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

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

Second, select a makefile
 and copy it to Makefile (or whatever your system
uses as the standard makefile name). The most generic makefiles we provide are
 makefile.ansi: if your C compiler supports function prototypes
 makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

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

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

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

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:
 cjpeg inputfile >outputfile
 cjpeg <inputfile >outputfile
 source program | cjpeg >outputfile
The simpler "two file" command line style is just
 cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

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

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

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

Selecting a memory manager

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

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

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

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

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

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

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

If you have plenty of (real or virtual) main memory, just use jmemnobs.c.
"Plenty" means about ten bytes for every pixel in the largest images
you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have
to use jmemname.c; be sure to adjust select_file_name() for local conditions.
You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM
setting to a reasonable value for your system (either by adding a #define for
DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to
allocate. Code and static data space isn't
 counted, so the actual memory
needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory
setting. Larger max-memory settings reduce the amount of I/O needed to
process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual
memory), just set DEFAULT_MAX_MEM to several million and forget it. At the
other end of the spectrum, for MS-DOS machines you probably can't go much
above 300K to 400K. (On MS-DOS the value refers to conventional memory only.
Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

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

Here are some things that could go wrong:

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

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

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

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

Also see the system-specific hints, below.

TESTING THE SOFTWARE
====================

As a quick test of functionality we've included a small sample image in
several forms:
 testorig.jpg Starting point for the djpeg tests.
 testimg.ppm The output of djpeg testorig.jpg
 testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
 testimg.jpg The output of cjpeg testimg.ppm
 testprog.jpg Progressive-mode equivalent of testorig.jpg.
 testimgp.jpg The output of cjpeg -progressive
 -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since the
default compression parameters are lossy.) If you can generate duplicates
of the testimg* files then you probably have working programs.

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

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

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

If the cjpeg test run fails with "Missing Huffman code table entry", it's a
good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED.
  Go back to the
configuration step and run ckconfig.c. (This is a good plan for any other
test failure, too.)

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

If you chose a memory manager other than jmemnobs.c, you should test that
temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg"

and make sure its output matches testimg.bmp. If you have any really large
images handy, try compressing them with -optimize and/or decompressing with
-colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

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

INSTALLING THE SOFTWARE
=======================

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

If you generated a Makefile with the "configure" script, you can just say
 make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
 make -n install
to see
 where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

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

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display

of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

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

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

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

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

1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

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

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early

1995, 2-byte binary format is not
officially supported by the PBMPLUS library, but it is expected that a
future release of PBMPLUS will support it. Note that the PPM reader will
read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming
data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the
cjpeg bit depth.

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

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

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

Removing code:

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

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG
software go as fast as possible. This section covers some machine-dependent
optimizations you may want to try. We suggest that before trying any of

this, you first get the basic installation to pass the self-test step.
Repeat the self-test after any optimization to make sure that you haven't
broken anything.

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

If your machine has sufficiently fast floating point hardware, you may find
that the float DCT method is faster than the integer DCT methods, even
after tweaking the integer multiply macros. In that
case you may want to
make the float DCT be the default method. (The only objection to this is
that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change
the default, you should redefine JDCT_FASTEST, which is the method selected
by djpeg's -fast switch. Don't forget to update the documentation files
(usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

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

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

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.

(Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
==========

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

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according
to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

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

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

Amiga:

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

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

"JPEGTMP:".

Atari ST/STE/TT:

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

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

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

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

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

Cray:

Should you be so fortunate
as to be running JPEG on a Cray YMP, there is a
compiler bug in old versions of Cray's Standard C (prior to 3.1). If you
still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop
```
  for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
```
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's
probably a dead issue anyway...]

HP-UX:

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

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

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

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
The
 CodeWarrior source code is available from http://www.pobox.com/~jsam.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

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

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

Macintosh, Metrowerks CodeWarrior:

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

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float.
jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

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

Macintosh, Think C:

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

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs;

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

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

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

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O
if you have that compiler version.
(Use "cc -V" to check the version.)
Note that the R3000 chip is found in workstations from DEC and others.

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

The IJG code is designed to work well in 80x86 "small" or "medium" memory
models (i.e., data pointers are 16 bits unless explicitly declared "far";
code pointers can be either size). You may be able to use small model to
compile cjpeg or djpeg by itself, but you will probably have to use medium
model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model, and you should avoid "huge" model if at all
possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use
a small-data memory model; be sure it is NOT defined if you use a large-data
model. (The supplied makefiles and jconfig files for Borland and Microsoft C
compile in medium model and define NEED_FAR_POINTERS.)

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

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set

MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your
C library's far-heap malloc() can't allocate blocks that large, reduce
MAX_ALLOC_CHUNK to whatever it can handle.

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

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

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

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

None of the above comments about memory models apply if you
are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

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

MS-DOS, Borland C:

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

Borland C 3.1, but perhaps is fixed in newer releases.)

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

MS-DOS, Microsoft C:

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

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

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

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

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

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

Microsoft Windows (all versions), generic comments:

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

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

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

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

windef.h contains the declarations

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

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

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

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

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

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

(in output_message in jerror.c) with

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

It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some
older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to
allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

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

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

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through

the function pointers. These macros are in jmorecfg.h. Typical definitions
for a 16-bit DLL are:
```
 #define GLOBAL(type)  type _far _pascal _loadds _export
 #define EXTERN(type)  extern type _far _pascal _loadds
 #define METHODDEF(type)  static type _far _pascal
 #define JMETHOD(type,methodname,arglist)
  \
  type (_far _pascal *methodname) arglist
```
For a 32-bit DLL you may want something like
```
 #define GLOBAL(type)  __declspec(dllexport) type
 #define EXTERN(type)  extern __declspec(dllexport) type
```
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

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

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc
 will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
```
 /* If image width is odd, do the last output column separately */
 if (cinfo->output_width & 1) {
   register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
   cb = GETJSAMPLE(*inptr1);
```
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

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

optimization switch combinations were used:
 -Ot -Og
 -Ot -Op
 -Ot -Om
So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

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

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

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

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

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

Microsoft Windows, Visual Studio 2017 (v15):

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

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

OS/2, Borland C++:

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

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler
option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it
faster than the default int method (but still slower than the fast int
method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

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

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/install.txt
No license file was found, but licenses were detected in source scan.

```
/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values.  Optional Floyd-Steinberg or ordered dithering is available.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jquant1.c
No license file was found, but licenses were detected in source scan.

```
/*
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
```

* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcprepct.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcparam.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
==========

README for release 9c of 14-Jan-2018
==========

This distribution contains the ninth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

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

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

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

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

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

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

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon
parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

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

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom",
two simple
applications for inserting and extracting textual comments in JFIF files.

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

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

LEGAL ISSUES
============

In plain English:

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

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you,
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software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2)
If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

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

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

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

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

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

REFERENCES
==========

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

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
 Communications of
 the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PDF file containing a revised version of Wallace's article is
available at http://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides
good explanations and example C code for a multitude of compression methods

including JPEG. It is an excellent source if you are comfortable
reading C
code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).
Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that
is the reason for
all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July
2011, Berlin, Germany.
IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

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

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

ARCHIVE LOCATIONS
=================

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

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

ACKNOWLEDGMENTS
===============

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algorithm article, only to find out that I had come to the same result
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Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

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

The ISO/IEC JTC1/SC29/WG1 standards
committee (previously known as JPEG,
together with ITU-T SG16) currently promotes different formats containing
the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements
for the maintenance of the original JPEG specification.
Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates
basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.
The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.
People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value and rights granted
and deposited in them by the Creator and not any one of
the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame")

is currently prepared and will be published later.

TO DO
=====

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

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/README
No license file was found, but licenses were detected in source scan.

```
/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups".  A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally.  The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request
 "context rows" by setting need_context_rows
* during startup.  In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*   Digital Image Warping, George Wolberg, 1990.
*   Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
```

```
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel.  The hi-falutin sampling literature
* refers to this as a "box filter".  In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad.  If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing
 capability is provided.  This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol).  When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors.  P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcsample.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application.  On resumption, we reprocess
* the marker.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdmarker.c
No license file was found, but licenses were detected in source scan.

```
/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
```

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found
 in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the
 first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile

* works regardless of which command line style is used.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/djpeg.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jpegtran.c
No license file was found, but licenses were detected in source scan.

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

* This file contains software version identification.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jversion.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdct.h
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* jmemdos.c
*

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

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jccolor.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

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

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

In this document, JPEG-specific
 terminology follows the JPEG standard:
 A "component" means a color channel, e.g., Red or Luminance.
 A "sample" is a single component value (i.e., one number in the image data).
 A "coefficient" is a frequency coefficient (a DCT transform output number).
 A "block" is an array of samples or coefficients.
 An "MCU" (minimum coded unit) is an interleaved set of blocks of size
 determined by the sampling factors, or a single block in a
 noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:

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

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

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

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

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

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

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

*** Portability issues ***

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

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code
should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit
external representation.

*** System overview ***

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

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

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

source data.
JPEG proper:
  * MCU assembly, DCT, quantization.
  * Entropy coding (sequential or progressive, Huffman or arithmetic).

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

The decompressor library contains the following main elements:

JPEG proper:
  * Entropy decoding (sequential or progressive, Huffman or arithmetic).
  * Dequantization, inverse DCT, MCU disassembly.
Postprocessing:
  * Upsampling. Optionally, this step may be able to do more general
    rescaling of the image.
  * Color space conversion (e.g., YCbCr to RGB). This step may also
    provide gamma adjustment [currently it does not].
  * Optional color quantization (e.g., reduction to 256 colors).
  * Optional
color precision reduction (e.g., 24-bit to 15-bit color).
    [This feature is not currently implemented.]

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

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

Note: it is convenient to regard edge expansion (padding to block boundaries)
as a preprocessing/postprocessing function, even though the JPEG spec includes
it in compression/decompression. We do this because
downsampling/upsampling
can be simplified a little if they work on padded data: it's not necessary to
have special cases at the right and bottom edges. Therefore the interface
buffer is always an integral number of blocks wide and high, and we expect
compression preprocessing to pad the source data properly. Padding will occur
only to the next block (block_size-sample) boundary. In an interleaved-scan

situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar
buffering and padding for odd-sized images.

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

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

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

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined
we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

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

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

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

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

*** Overall control structure ***

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

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

1A. Startup
initialization at the beginning of image processing.
The individual processing modules to be used in this run are selected and given initialization calls.

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

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master

control code need only be concerned with decisions that affect more than one module.

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

Each
buffer controller sees the world as follows:

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

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

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

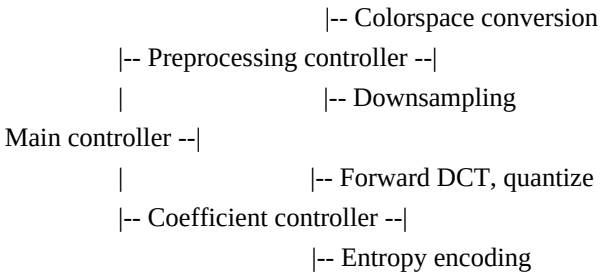
The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module.
(Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

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

*** Compression object structure ***

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

library:



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

The objects shown above are:

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

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

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

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

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT

blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

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

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

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

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

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

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

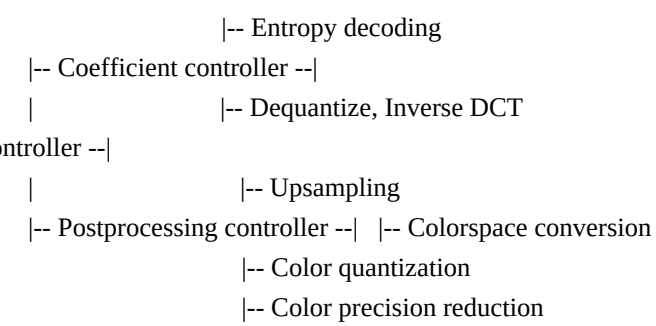
The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific

customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

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

*** Decompression object structure ***

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



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

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call.

For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

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

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

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

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

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

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

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

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive
 JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
 coefficient controller's DCT coefficient buffer. Note that this
 processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT
 and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the

output section is concerned. See
libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat
input of the
file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE;  a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;  ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are
to be
supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard's
specification that sample values run from -128..127 is accommodated by
subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to
0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
defined as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit
implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of
the rows. This simplifies edge expansion/compression, since we can work
in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many
machines.
* Arrays with more than 64K total elements can be supported even on machines
where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
without extra copying. This trick allows some speedups in smoothing steps
that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on
each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the
first sample row currently in memory. Either of the first two indexings can
be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which
the components of a pixel are stored together, the data passed to or from the
surrounding application uses the traditional convention: a single pixel is
represented by N consecutive JSAMPLE values, and an image row is an array of
(# of color components)*(image width) JSAMPLEs. One or more rows of data can
be represented by a pointer of type JSAMPARRAY in this scheme.
This scheme is
converted to component-wise storage inside the JPEG library. (Applications
that want to skip JPEG preprocessing or postprocessing will have to contend

with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF;  a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big
enough on all machines of interest, on some machines it is preferable to use
"int" for speed reasons, despite the storage cost. Coefficients are grouped
into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than
"8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged
order,
 and may be true values or divided by the quantization coefficients,
depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy
codecs zigzag or dezigzag the data as it is written or read. The blocks
contain quantized coefficients everywhere outside the DCT/IDCT subsystems.
(This latter decision may need to be revisited to support variable
quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks,
corresponding to block_size rows of samples. Otherwise the structure
is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data
structure limits us to rows of less than 512 JBLOCKs, or a picture width of
4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW)
must be declared as "far" pointers, but
 the upper levels can be "near"
(implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when
compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an
incremental, memory-to-memory filter. In this situation the data source or

destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The
essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very
expensive, and may even
lead to *improved* performance if the local variables can be registerized.)
If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this,
since they will just store the same values
again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it

would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K
buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak
bugs, and
it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)
Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may
 require tens to hundreds of K depending on
  image size. Semantically they behave the same as small objects, but we
  distinguish them for two reasons:
    * On MS-DOS machines, large objects are referenced by FAR pointers,
      small objects by NEAR pointers.
    * Pool allocation heuristics may differ for large and small objects.
  Note that individual "large" objects cannot exceed the size allowed by
  type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs
  (typically large enough for the entire image being processed). The
  memory manager provides stripwise access to these arrays. On machines
  without virtual memory, the rest of the array may be swapped out to a
  temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large
objects for the data proper and small objects for the row pointers. For
convenience and speed, the memory manager provides single routines
 to create
these structures. Similarly, virtual arrays include a small control block
and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is
not very useful since a virtual array's raison d'etre is to store data for
multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager
 needs to allocate all
of the virtual arrays at once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business

with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan)
   during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
   allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that
sufficient information is available
   for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
never-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoefct.c for progressive
JPEG mode; we may as well make it available
for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end.
The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
   (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
   else usually the same as
   jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes
 a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height
 (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image
descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files.
(One could improve efficiency by
demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's
Huffman decoder; this implies a speed penalty whether the feature is used
or not.
2. There is no way to hide the last-minute change in image height from an
application using the decoder. Thus *every* application using the IJG
library would suffer a complexity penalty whether it cared about DNL or
not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using
files be preprocessed by a
separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/structure.txt

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

```
/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2003-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches.  Switches processed here are:
* -qtables file  Read quantization tables from text file
* -scans file  Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdswitch.c
No license file was found, but licenses were detected in source scan.

```
/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2003-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations.  However, it may not give the same results on all
* machines because of differences in roundoff behavior.  Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column.  Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled
 DCT.  Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README).  The following code
```

* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*

```
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h.  On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply.  But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/


/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler
 support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
```

```
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h>
 file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified
 structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused.  To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN.  This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__  /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE   /* in case these macros already exist */
```

```
#define FALSE 0  /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN  /* prevent jmorecfg.h from redefining it */
#endif


/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS
 has been defined.
*/

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED


#endif /* JPEG_INTERNALS */


/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED  /* BMP image file format */
#define GIF_SUPPORTED  /* GIF image file format */
#define PPM_SUPPORTED  /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED  /* Utah RLE image file format */
#define TARGA_SUPPORTED  /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout
```

```
 and optionally stdin.  You MUST do this if
* your system can't cope with binary I/O to stdin/stdout.  See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't.  If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT


#endif /* JPEG_CJPEG_DJPEG */
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

```
/*
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager.  This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemansi.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time.  In the conversion equations
* R = Y           + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just
 once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases.  (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdmerge.c
No license file was found, but licenses were detected in source scan.

```
/*
* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
```

* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
* in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2010-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they
 are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However,

that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure

```
* that more space is left over by reducing max_memory_to_use.
*
* Large images
 are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7.  (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls.  You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*     FSpDelete     ->  HDelete
*     FSpGetFInfo   ->  HGetFInfo
*     FSpCreate     ->  HCreate
*     FSpOpenDF     ->  HOpen
  *** Note: not HOpenDF ***
*     FSMakeFSSpec  ->  (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF.  HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs.  HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2016 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
```

* post-processor; it holds downsampled data in the JPEG colorspace.
*
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.

```
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications.  These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/cderror.h
No license file was found, but licenses were detected in source scan.

```
/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch.  It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
*   GIF: the contents of the GIF's global colormap are used.
*   PPM (either text or raw flavor): the entire file is read and
*      each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color.  Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
 */
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation.  This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library.  These are the "standard" API routines that are
* used in the normal full-compression case.  They are not used by a
* transcoding-only application.  Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
No license file was found, but licenses were detected in source scan.

```
/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
No license file was found, but licenses were detected in source scan.

```
/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2003-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
```

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/wrbmp.c
No license file was found, but licenses were detected in source scan.

```
/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                     *
*************************************************************************
*
* We are required to state that
*    "The Graphics Interchange Format(c) is the Copyright property of
*    CompuServe Incorporated. GIF(sm) is a Service Mark property of
*    CompuServe Incorporated."
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/rdgif.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see
jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

```
/*
*  Block comments in this style.
*/
```

We indent statements in K&R style, e.g.,

```
 if (test) {
   then-part;
 } else {
   else-part;
 }
```

with two spaces per indentation
level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
function_name (int a, char
 *b)
{
  code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
 #ifdef HAVE_PROTOTYPES
 #define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
 #else
 #define JMETHOD(type,methodname,arglist)  type (*methodname) ()
 #endif
```

which is used like this:

```
 struct function_pointers {
   JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
   JMETHOD(void, term_entropy_encoder, (void));
 };
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names

to eight
characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep
compression and decompression code in separate source files --- some
applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the
modules that are used in cjpeg/djpeg but are not part of the JPEG library
proper. Those modules are not really intended to be used in other
applications.

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/coderules.txt
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* cjpeg [options] inputfile outputfile
* cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the
first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*

```
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations.  Most users will not need to touch this file.
*/
```

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h
No license file was found, but licenses were detected in source scan.

```
/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2017 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications.  As they stand, they assume input from
* an ordinary stdio stream.  They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions
 of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation.  This software is provided "as is" without express or
** implied warranty.
*/
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
* jdcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jdtrans.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying
to program with the library.
The sections on advanced features can be read
if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image
files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested,
then the decompression
library automatically invokes color quantization.

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

A word about functions *not* provided by the library. We handle a subset of
the ISO JPEG standard; most baseline, extended-sequential, and progressive
JPEG processes are supported. (Our subset includes all features now in common
use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We
support 8-bit to 12-bit data precision, but this is a compile-time choice
rather than a run-time choice; hence it is difficult to use different

precisions in a single application.

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

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
 jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression
object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize
a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
```

jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It
is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects
or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data

(three components per pixel) or grayscale data (one component per pixel).
PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.
A remarkable number of people manage to miss this, only to find that their
programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color
or full grayscale (or sometimes another colorspace such as CMYK). You can
feed in a colormapped image by expanding it to full-color format. However
JPEG often doesn't work very well with source data that has been colormapped,
because of dithering noise. This is discussed in more detail in the JPEG FAQ
and the other references mentioned
in the README file.

Pixels are stored by scanlines, with each scanline running from left to
right. The component values for each pixel are adjacent in the row; for
example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an
array of data type JSAMPLE --- which is typically "unsigned char", unless
you've changed jmorecfg.h. (You can also change the RGB pixel layout, say
to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in
that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of
scanlines; so the scanlines need not be physically adjacent in memory. Even
if you process just one scanline at a time, you must make a one-element
pointer array to conform to this structure. Pointers to JSAMPLE rows are of
type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a
time. Scanlines are always
processed top-to-bottom. You can process an entire image in one call if you
have it all in memory, but usually it's simplest to process one scanline at
a time.

For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress
data that's only 6 bits/channel, you should left-justify each value in a
byte before passing it to the compressor. If you need to compress data
that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12.
(See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details,
except that colormapped output is supported. (Again, a JPEG file is never
colormapped. But you can ask the decompressor to perform on-the-fly color
quantization to deliver colormapped output.) If you request colormapped
output then the returned data array contains a single JSAMPLE per pixel;
its value is an index

into a color map. The color map is represented as
a 2-D JSAMPARRAY in which each row holds the values of one color component,
that is, colormap[i][j] is the value of the i'th color component for pixel
value (map index) j. Note that since the colormap indexes are stored in
JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
(ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has
a bunch of subsidiary structures which are allocated via malloc(), but the
application doesn't control those directly.) This struct can be just a local
variable in the calling routine, if a single routine is going to execute the
whole JPEG compression sequence. Otherwise it can be static or allocated
from malloc().

You will also need a structure representing
a JPEG error handler. The part
of this that the library cares about is a "struct jpeg_error_mgr". If you
are providing your own error handler, you'll typically want to embed the
jpeg_error_mgr struct in a larger structure; this is discussed later under
"Error handling". For now we'll assume you are just using the default error
handler. The default error handler will print JPEG error/warning messages
on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into
the JPEG object's "err" field, and then call jpeg_create_compress() to
initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will
exit via the error handler;
that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a
"data destination" module. The library includes one data destination
module which knows how to write to a stdio stream. You can use your own
destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt
binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):

```
image_width  Width of image, in pixels
image_height  Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space  Color space of source image
```

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
of 1 to 64K pixels in either direction. The input color space is typically
RGB

or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical
code for a 24-bit RGB source image is

```
cinfo.image_width = Width;  /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(),

you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else's, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently.
Examples
of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far
in the next_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data.
example.c shows the following code for the case of a full-size 2-D source
array containing 3-byte RGB pixels:

```
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride;   /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written.
This will normally be equal to the number
passed in, so you can usually
ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height,
the additional scanlines are ignored.

 * If you use a suspending data destination manager, output buffer overrun
   will cause the compressor to return before accepting all the passed lines.
   This feature is discussed under "I/O suspension", below. The normal
   stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to
complete the compression cycle. This step is ESSENTIAL to ensure that the
last bufferload of data is written to the data destination.
jpeg_finish_compress() also releases working memory associated with the JPEG
object.

Typical code:

 jpeg_finish_compress(&cinfo);

If using the stdio destination manager,
 don't forget to close the output
stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code
optimization, jpeg_finish_compress() will perform the additional passes using
data buffered by the first pass. In this case jpeg_finish_compress() may take
quite a while to complete. With the default compression parameters, this will
not happen.

It is an error to call jpeg_finish_compress() before writing the necessary
total number of scanlines. If you wish to abort compression, call
jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object
as discussed next, or you may use it to compress another image. In that case
return to step 2, 3, or 4 as appropriate. If you do not change the
destination manager, the new datastream will be written to the same target.
If you do not change any JPEG parameters, the new datastream will be written
with the same parameters as before. Note that you can change
 the input image
dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then
you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8.
Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported
an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above,
except that the object is a "struct jpeg_decompress_struct" and you
call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for
both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from
a "data
source" module. The library includes one data source module which knows how
to read from a stdio stream. You can use your own source module if you want
to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream
beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged.
On non-Unix systems the stdio library may perform newline translation or
otherwise corrupt binary data. To suppress this behavior, you may need to use
a "b" option to fopen (as shown above), or use setmode() or another routine to
put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that
has been found to work on many systems.

You may not
change the data source between calling jpeg_read_header() and
jpeg_finish_decompress(). If you wish to read a series of JPEG images from
a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG
object or the data source module; this prevents buffered input data from
being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header()
may return before it has read all the header data. See "I/O suspension",
below. The normal stdio source manager
will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on
abbreviated datastreams. Standard applications that deal only in
interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on
the properties of the image (in particular, its colorspace). However, you
may well want to alter these defaults before beginning the decompression.
For example, the default is to produce full color output from a color file.
If you want colormapped output you must ask for it. Other options allow the
returned image
to be scaled and allow various speed/quality tradeoffs to be
selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter
settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to
begin decompression. This will initialize internal state, allocate working
memory, and prepare for returning data.

Typical code is just

 jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color
quantization, jpeg_start_decompress() will do everything needed before data
output can begin. In this case jpeg_start_decompress() may take quite a while
to complete. With a single-scan
 (non progressive) JPEG file and default
decompression parameters, this will not happen; jpeg_start_decompress() will
return quickly.

After this call, the final output image dimensions, including any requested
scaling, are available in the JPEG object; so is the selected colormap, if
colormapped output has been requested. Useful fields include

 output_width image width and height, as scaled
 output_height
 out_color_components # of color components in out_color_space
 output_components # of color components returned per pixel
 colormap the selected colormap, if any
 actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it
equals out_color_components. It is the number of JSAMPLE values that will be
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.
You will need output_width * output_components JSAMPLEs per scanline in your
output
 buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate
data buffers (as djpeg does), then the manager's protocol requires that you
request large buffers *before* calling jpeg_start_decompress(). This is a

little tricky since the output_XXX fields are not normally valid then. You
can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines()
one or more times. At each call, you pass in the maximum number of scanlines
to be read (ie, the height of your working buffer); jpeg_read_scanlines()
will return up to that many lines. The return value is the number of lines
actually read. The format of the returned data is discussed under "Data
formats", above. Don't forget
that grayscale and color JPEGs will return
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write
out the image in bottom-to-top order, you can use the JPEG library's virtual
array mechanism to invert the data efficiently. Examples of this can be
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far
in the output_scanline field of the JPEG object. Usually you can just use
this variable as the loop counter, so that the loop test looks like
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The
image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that
jpeg_read_scanlines() reads at least one scanline per call, until the
bottom of the image
has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that
jpeg_read_scanlines() fills it. (The current implementation returns only a
few scanlines per call, no matter how large a buffer you pass.) So you must
always provide a loop that calls jpeg_read_scanlines() repeatedly until the
whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to
complete the decompression cycle. This causes working memory associated
with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio
stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct
total number of scanlines. If you wish to abort decompression, call
jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as
discussed next, or you may use
it to decompress another image. In that case
return to step 2 or 3 as appropriate. If you do not change the source
manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling
jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of
destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling jpeg_destroy_decompress() or
jpeg_destroy() if you don't need the JPEG object any more, or
jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object.
The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h
to obtain declarations of data types and routines. Before
including
jpeglib.h, include system headers that define at least the typedefs FILE and
size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on
older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also

include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this

task. Proper setting of some parameters requires detailed understanding
of the JPEG standard; if you don't know what a parameter is for, it's best
not to mess with it! See REFERENCES in the README file for pointers to
more info
 about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set
all the parameters; that way your code is more likely to work with future JPEG
libraries that have additional parameters. For the same reason, we recommend
you use a helper routine where one is provided, in preference to twiddling
cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
 This routine sets all JPEG parameters to reasonable defaults, using
 only the input image's color space (field in_color_space, which must
 already be set in cinfo). Many applications will only need to use
 this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
 Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
 and sets other color-space-dependent parameters appropriately. See
 "Special color spaces", below, before using this. A large number of
 parameters, including all per-component parameters,
 are set by this
 routine; if you want to twiddle individual parameters you should call
 jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
 Selects an appropriate JPEG colorspace based on cinfo->in_color_space,
 and calls jpeg_set_colorspace(). This is actually a subroutine of
 jpeg_set_defaults(). It's broken out in case you want to change
 just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
 Constructs JPEG quantization tables appropriate for the indicated
 quality setting. The quality value is expressed on the 0..100 scale
 recommended by IJG (cjpeg's "-quality" switch uses this routine).
 Note that the exact mapping from quality values to tables may change
 in future IJG releases as more is learned about DCT quantization.
 If the force_baseline parameter is TRUE, then the quantization table
 entries are constrained to the range 1..255 for full JPEG baseline
 compatibility.
  In the current implementation, this only makes a
 difference for quality settings below 25, and it effectively prevents
 very small/low quality files from being generated. The IJG decoder
 is capable of reading the non-baseline files generated at low quality

settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,
  boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the
sample tables given in the JPEC spec section K.1, multiplied by the
specified scale factor (which is expressed as a percentage; thus
scale_factor = 100 reproduces the spec's tables). Note that larger
scale factors give lower quality. This entry point is useful for
conforming to the Adobe PostScript DCT conventions, but we do not
recommend linear scaling as a user-visible quality scale otherwise.
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling
(int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
      const unsigned int *basic_table,
      int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version
6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
 If TRUE, use arithmetic coding.
 If FALSE, use Huffman coding.

int block_size
 Set DCT block size. All N from 1 to 16 are possible.
 Default is 8 (baseline format).
 Larger values produce higher compression,
 smaller values produce higher quality.
 An exact DCT stage is possible with 1 or 2.
 With the default quality
 of 75 and default Luminance qtable
 the DCT+Quantization stage is lossless for value 1.
 Note that values other than 8 require a SmartScale capable decoder,
 introduced with IJG JPEG 8. Setting the block_size parameter for
 compression works with version 8c and later.

J_DCT_METHOD dct_method
 Selects the algorithm used for the DCT step. Choices are:
  JDCT_ISLOW: slow but accurate integer algorithm
  JDCT_IFAST: faster, less accurate integer method
  JDCT_FLOAT: floating-point method
  JDCT_DEFAULT: default method (normally JDCT_ISLOW)
  JDCT_FASTEST: fastest method (normally JDCT_IFAST)
 The FLOAT method is very slightly more accurate than the ISLOW method,
 but may give different results on different machines due to varying
 roundoff behavior. The integer methods should give the same results
 on all machines. On machines with sufficiently fast FP hardware, the
 floating-point method may also be the fastest. The IFAST method is
 considerably less accurate than the other two; its
 use is not
 recommended if high quality is a concern. JDCT_DEFAULT and
 JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
 Scale the image by the fraction scale_num/scale_denom. Default is
 1/1, or no scaling. Currently, the supported scaling ratios are
 M/N with all N from 1 to 16, where M is the destination DCT size,
 which is 8 by default (see block_size parameter above).
 (The library design allows for arbitrary scaling ratios but this
 is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
 The JPEG color space and corresponding number of components; see
 "Special color spaces", below, for more info. We recommend using
 jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
(requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible:
JCT_NONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows
is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive
JPEG support".

boolean do_fancy_downsampling
 If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
 of chroma components.
 If FALSE, use only DCT size <= 8 and simple separate downsampling.
 Default is TRUE.
 For better image stability in multiple generation compression cycles
 it is preferable that this value matches the corresponding
 do_fancy_upsampling value in decompression.

int smoothing_factor
 If non-zero, the input image is smoothed; the value should be 1 for
 minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
 for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
 If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
 jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
 (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
 The version number to be written into the JFIF marker.
 jpeg_set_defaults() initializes the version to
 1.01 (major=minor=1).
 You should set it to 1.02 (major=1, minor=2) if you plan to write
 any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
 The resolution information to be written into the JFIF marker;
 not used otherwise. density_unit may be 0 for unknown,
 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
 indicating square pixels of unknown size.

boolean write_Adobe_marker
 If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
 jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
 or YCCK is selected, otherwise FALSE. It is generally a bad idea
 to set both write_JFIF_header and write_Adobe_marker. In fact,
 you probably shouldn't change the default settings at all --- the
 default behavior ensures that the JPEG file's color space can be
 recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
 Pointers to coefficient quantization tables, one per table slot,
 or NULL if no table is

defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate
color
quality selection, since the default value used by library
is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from

the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this
behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are

recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated
 datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width   Width and height of image
JDIMENSION image_height
int num_components   Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker   TRUE if a JFIF APP0 marker was seen
 UINT8 JFIF_major_version Version information from JFIF marker
 UINT8 JFIF_minor_version
 UINT8 density_unit   Resolution data from JFIF marker
 UINT16 X_density
 UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen

 UINT8 Adobe_transform   Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

J_COLOR_SPACE out_color_space
 Output color space. jpeg_read_header() sets an appropriate default
 based on jpeg_color_space; typically it will be RGB or grayscale.
 The application can change this field to request output in a different
 colorspace. For example, set it to JCS_GRAYSCALE to get grayscale
 output from a color file. (This is useful for previewing: grayscale
 output is faster than full color since the color components need not
 be processed.) Note that not all possible color space transforms are
 currently implemented; you may
 need to extend jdcolor.c if you want an
 unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE,
meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the
single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
 The color map, represented as a 2-D pixel array of out_color_components
 rows and actual_number_of_colors columns. Ignored if not quantizing.
 CAUTION: if the JPEG library creates its own colormap, the storage
 pointed to by this field is released by jpeg_finish_decompress().
 Copy the colormap somewhere else first, if
 you want to save it.

int actual_number_of_colors
 The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
 Selects the algorithm used for the DCT step. Choices are the same
 as described above for compression.

boolean do_fancy_upsampling
 If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
 of chroma components.
 If FALSE, use only DCT size <= 8 and simple separate upsampling.
 Default is TRUE.
 For better image stability in multiple generation compression cycles
 it is preferable that this value matches the corresponding
 do_fancy_downsampling value in compression.

boolean do_block_smoothing
 If TRUE, interblock smoothing is applied in early stages of decoding
 progressive JPEG files; if FALSE, not. Default is TRUE. Early
 progression stages look "fuzzy" with smoothing, "blocky" without.
 In any case, block smoothing ceases to be applied after the first few
 AC coefficients are known
 to full accuracy, so it is relevant only
 when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
 These are significant only in buffered-image mode, which is
 described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()

to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you
are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color
 components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map
index per pixel. Otherwise it equals out_color_components. The output arrays
are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the
buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the
library will still work, but time will be wasted due to unnecessary data
copying. In high-quality modes, rec_outbuf_height is always 1, but some
faster, lower-quality modes set it to larger values (typically 2 to 4).
If you are going to ask for a high-speed processing mode, you may as well
go to the trouble of honoring rec_outbuf_height so as to avoid data copying.
(An output buffer larger than rec_outbuf_height lines is OK, but won't
provide any material speed improvement
 over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular
color space. It is customary to convert color data to a luminance/chrominance
color space before compressing, since this permits greater compression. The
existing JPEG file interchange format standards specify YCbCr or GRAYSCALE
data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB
or BG_YCC (big gamut color spaces, JFIF version 2). For special applications
such as multispectral images, other color spaces can be used,
but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely
RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown
color space, passing it through without conversion. If you deal extensively
with an unusual color space, you can easily extend the library to understand
additional color spaces and perform
 appropriate conversions.

For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange
standards.
jpeg_set_colorspace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF
or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE

RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the

program by adjusting
the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct
in a larger structure that contains
additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message.
Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
 Decide whether or not to emit a warning or trace message; if so,
 calls output_message. The main reason for overriding this method
 would be to abort on warnings. msg_level is -1 for warnings,
 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table.
  The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual
 invocation of the error handler is done via macros defined in jerror.h:
 ERREXITn(...) for fatal errors
 WARNMSn(...) for corrupt-data warnings
 TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to

do something else. Similarly, the decompression library calls a
 "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine
 where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

```
 JOCTET * next_output_byte;  /* => next byte to write in buffer */
 size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer
is filled. The manager's empty_output_buffer method must reset the pointer
and count. The manager is expected to remember the buffer's starting address
and total size in private fields not visible to the library.

A data destination manager provides three methods:

```
init_destination (j_compress_ptr cinfo)
 Initialize destination.  This is called by jpeg_start_compress()
 before any data is actually written.  It must initialize
 next_output_byte
 and free_in_buffer.  free_in_buffer must be
 initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
 This is called whenever the buffer has filled (free_in_buffer
 reaches zero).  In typical applications, it should write out the
 *entire* buffer (use the saved start address and buffer length;
```

ignore the current state of next_output_byte and free_in_buffer).
Then reset the pointer & count to the start of the buffer, and
return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is
returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much
data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer
and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)

This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer
entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its
mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines
in jdmarker.c if you think you'd like to implement your own resync
procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the
decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory
filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine
is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output

buffer pointer/count appropriately, and then call jpeg_write_scanlines()
again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping
point (usually the start of the current MCU); it will regenerate some output
data when restarted. Therefore, although
empty_output_buffer() is only
called when the buffer is filled, you should NOT write out the entire buffer
after a suspension. Write only the data up to the current position of
next_output_byte/free_in_buffer. The data beyond that point will be
regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential
for efficiency; you don't want the compressor to suspend often. (In fact, an
overly small buffer could lead to infinite looping, if a single MCU required
more data than would fit in the buffer.) We recommend a buffer of at least
several Kbytes. You may want to insert explicit code to ensure that you don't
call jpeg_write_scanlines() unless there is a reasonable amount of space in
the output buffer; in other words, flush the buffer before trying to compress
more data.

The compressor does not allow suspension while it is trying to write JPEG
markers at the beginning and end of the file. This means that:
* At the beginning of
a compression operation, there must be enough free
space in the output buffer to hold the header markers (typically 600 or
so bytes). The recommended buffer size is bigger than this anyway, so
this is not a problem as long as you start with an empty buffer. However,
this restriction might catch you if you insert large special markers, such
as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the
output buffer to emit any buffered data and the final EOI marker. In the
current implementation, half a dozen bytes should suffice for this, but
for safety's sake we recommend ensuring that at least 100 bytes are free
before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend.
This means you cannot use suspension with multi-pass operating modes, namely
Huffman code optimization and multiple-scan output. Those modes
write the
whole file during jpeg_finish_compress(), which will certainly result in
buffer overrun. (Note that this restriction applies only to compression,
not decompression. The decompressor supports input suspension in all of its
operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply

returns FALSE (except perhaps during error recovery, as discussed below).
This will cause the decompressor to return to its caller with an indication
that suspension has occurred. This can happen at four places:
 * jpeg_read_header(): will return JPEG_SUSPENDED.
 * jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
 * jpeg_read_scanlines(): will return the number of scanlines already
 completed (possibly 0).
 * jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into
the input buffer, and repeat the call. In the case
 of jpeg_read_scanlines(),
increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is
called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs
to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario.
  This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably
 more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;

instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would
lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only
if no more
buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data()
call,
so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is
called, move any unconsumed data (beyond the current pointer/count) down to
the beginning of this buffer and then load new data into the remaining buffer
space. This approach requires a little more data copying but is far easier
to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of
increasing quality. In situations where a JPEG file is transmitted across a
slow communications link, a decoder can generate a low-quality image very
quickly from the first scan, then gradually improve the displayed quality as
more scans are received. The final image after all scans are complete is
identical to that of a regular (sequential) JPEG file of the same quality
setting. Progressive JPEG files are often
 slightly smaller than equivalent
sequential JPEG files, but the possibility of incremental display is the main
reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a
suitable "scan script" defining how to divide the data into scans.
Creation of progressive JPEG files is otherwise transparent to the encoder.
Progressive JPEG files can also be read transparently by the decoder library.
If the decoding application simply uses the library as defined above, it
will receive a final decoded image without any indication that the file was
progressive. Of course, this approach does not allow incremental display.
To perform incremental display, an application needs to use the decoder
library's "buffered-image" mode, in which it receives a decoded image
multiple times.

Each displayed scan requires about as much work to decode as a full JPEG
image of the same size, so the decoder must be fairly fast in relation to the
data transmission rate in
 order to make incremental display useful. However,
it is possible to skip displaying the image and simply add the incoming bits
to the decoder's coefficient buffer. This is fast because only Huffman
decoding need be done, not IDCT, upsampling, colorspace conversion, etc.
The IJG decoder library allows the application to switch dynamically between
displaying the image and simply absorbing the incoming bits. A properly
coded application can automatically adapt the number of display passes to
suit the time available as the image is received. Also, a final
higher-quality display cycle can be performed from the buffered data after
the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file),
set the scan_info cinfo field to point to an array of scan descriptors, and
perform compression as usual. Instead of constructing your own scan list,
you can call the jpeg_simple_progression() helper routine to create a
recommended
 progression sequence; this method should be used by all
applications that don't want to get involved in the nitty-gritty of
progressive scan sequence design. (If you want to provide user control of
scan sequences, you may wish to borrow the scan script reading code found
in rdswitch.c, so that you can read scan script files just like cjpeg's.)
When scan_info is not NULL, the compression library will store DCT'd data
into a buffer array as jpeg_write_scanlines() is called, and will emit all
the requested scans during jpeg_finish_compress(). This implies that
multiple-scan output cannot be created with a suspending data destination
manager, since jpeg_finish_compress() does not support suspension. We
should also note that the compressor currently forces Huffman optimization
mode when creating a progressive JPEG file, because the default Huffman
tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will
 read all of
a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here "multi-scan" means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a
coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can
display in
 lockstep with the source file (one display pass per input scan),
or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission
rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()  /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by

a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can
 be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
 JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
 JPEG_REACHED_EOI: reached the EOI marker (end of image)
 JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
 JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
 JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever
 the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
 * You can limit buildup of unprocessed data in your input buffer.
 * You can eliminate extra display passes by paying attention to the
   state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another
 thread.)

When input arrives fast enough that more than one new scan is available

before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind".
You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up

with the arriving data.

When using this strategy, you'll want to be sure that you perform a final
output pass after receiving all the data; otherwise your last display may not
be full quality across the whole screen. So the right outer loop logic is
something like this:

```
 do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
 } while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the
final pass, the right loop logic is like this:

```
 for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
      break;
 }
```

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(),
or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process

might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number;
 if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher
number as the target scan for jpeg_start_output(); but that method doesn't
let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and
thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these
routines:
* jpeg_start_output()
 performs input only if you request 2-pass quantization
 and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it
 was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan,
 up to the end of the file or the SOS marker that begins another scan.
 (But it reads no input if jpeg_consume_input() has already reached the
 end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can
 suspend if the end hasn't already been reached (as can be tested by
 calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data
and repeat the call. Applications that use non-suspending data sources
 need
not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are
allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
For example, one could use a fast DCT method for early scans, changing
to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
of course this has no impact if not using color quantization. Typically
one would use ordered dither for initial passes, then switch to
Floyd-Steinberg dither for the final pass. Caution: changing dither mode
can cause more memory to be allocated by the library. Although the amount
of memory involved is not large (a scanline or so), it may cause the
initial max_memory_to_use specification to
be exceeded, which in the worst
case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image.
During the first DC-only scan, block smoothing provides a very "fuzzy" look
instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win
during later stages, especially when decoding a successive-approximation
image: smoothing helps to hide the slight blockiness that otherwise shows
up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
You *cannot* change between full-color and quantized output (because that
would alter the required I/O buffer sizes), but you can change which
quantization method is used.

When generating color-quantized output, changing quantization method is
a
very useful way of switching between high-speed and high-quality display.
The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
Selected by setting cinfo.colormap to point to the colormap (the value of
two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
(This is the default setting selected by jpeg_read_header, but it is
probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage
requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quant Fixed color cube colormap

enable_external_quant Externally-supplied colormap
enable_2pass_quant Two-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must
 explicitly set cinfo.colormap to NULL when switching to 1-pass
  or 2-pass mode from a different mode, or when you want the 2-pass
  quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
  colormap than was used on the prior pass, you must call
  jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during
 jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is

no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple_scans(), which will return a correct
result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input
processing get ahead of output processing, the resulting pattern of access to
the coefficient buffer is quite nonsequential. It's best to use the memory
manager jmemnobs.c if you can (ie, if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use
a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be
improved with additional work on the memory manager, but we haven't gotten
around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all
input processing, including reading the initial markers; that is, you may
wish to call jpeg_consume_input() instead of jpeg_read_header() during
startup. This works, but note that you must check for JPEG_REACHED_SOS and
JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes.
Once the first SOS marker has been reached, you must call
jpeg_start_decompress() before jpeg_consume_input() will consume more input;
it'll just keep returning JPEG_REACHED_SOS until you do. If you read a
tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI
without ever returning JPEG_REACHED_SOS; be sure to check for this case.
If this happens, the decompressor will not read any more input until you
call
jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not
using buffered-image mode, but in that case it's basically a no-op after the
initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple
images. This saves a small amount of time per image by eliminating the
"create" and "destroy" operations, but that isn't the real purpose of the
feature. Rather, reuse of an object provides support for abbreviated JPEG
datastreams. Object reuse can also simplify processing a series of images in
a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization

and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

 * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
 * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
 * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress()
with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress()
will force all the sent_table fields to FALSE. (This is a safety feature to
prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you
normally would, but instead of calling jpeg_start_compress()
 and so on, call
jpeg_write_tables(&cinfo). This will write an abbreviated datastream
containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will
be emitted unless their sent_tables flag is already TRUE, and then all the
sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files
is to proceed as follows:

```
 create JPEG compression object
 set JPEG parameters
 set destination to tables-only file
 jpeg_write_tables(&cinfo);
 set destination to image file
 jpeg_start_compress(&cinfo, FALSE);
 write data...
 jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You
 cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters()
for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.

If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization
 table into table slot "n":

```
  if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
  quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
  for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
  }
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
  if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
  huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
  for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
  }
  for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
  }
```

(Note that trying to set cinfo.quant_tbl_ptrs[n]
 to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

```
 create JPEG decompression object
 set source to tables-only file
 jpeg_read_header(&cinfo, FALSE);
 set source to abbreviated image file
 jpeg_read_header(&cinfo, TRUE);
 set decompression parameters
 jpeg_start_decompress(&cinfo);
 read data...
```

jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image
or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that
depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn't
flush the output buffer at term_destination() time. This would speed things
up by some trifling amount. Of course, you'd need to remember to flush the
buffer after the last image. You can make the later images be abbreviated
ones by passing FALSE to jpeg_start_compress().

Special markers

Some applications may need to insert or extract special data in the JPEG
datastream. The JPEG standard provides marker types "COM" (comment) and
"APP0" through "APP15" (application) to hold application-specific data.
Unfortunately, the use of these markers is not specified by the standard.
COM markers are fairly widely used to hold user-supplied text. The JFIF file
format spec uses APP0 markers with specified initial strings to hold certain
data. Adobe applications use APP14 markers beginning
with the string "Adobe"
for miscellaneous data. Other APPn markers are rarely seen, but might
contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers
and place readable 7-bit ASCII text in them. Newline conventions are not
standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR

(Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can
have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to
by comment_text:
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct

JFIF version number in the JFIF header marker. The library's default
is to write version 1.01, but that's wrong if you insert any 1.02 extension
markers. (We could probably get away with just defaulting to 1.02, but there
used to be broken decoders that would complain about unknown minor version
numbers. To reduce compatibility risks it's safest not to write 1.02 unless
you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers
into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers
on-the-fly as they are read.
The first method is simpler to use, especially if you are using a suspending
data source; writing a marker processor that copes with input suspension is
not easy (consider what happens if the marker is longer than your available
input buffer). However, the second method
conserves memory since the marker
data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the
markers of interest will typically be near the head of the file and so will
be scanned by jpeg_read_header. Once you've established a marker handling
method, it will be used for the life of that decompression object
(potentially many datastreams), unless you change it. Marker handling is
determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter
allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these

lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It
 is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment,
 the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature
 boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
reading the marker length word and the remaining parameter bytes, if any.
Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default
 APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write
or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downsampled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component.
This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of
block_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
This notifies the library that you will

be supplying raw data.
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use
  real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace()
  call is a good idea. Note that since color conversion is bypassed,
  in_color_space is ignored, except that jpeg_set_defaults() uses it to
  choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
  cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
  dimensions of the data you are supplying, it's wise to set them
  explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned
 from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*block_size sample rows of each component. The passed num_lines
value must be at least max_v_samp_factor*block_size, and the return value
will be exactly that amount (or possibly some multiple of that amount, in
future library versions). This is true even on the last call at the bottom
of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
 cinfo->comp_info[i].width_in_blocks*block_size samples per row
 cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions.
  The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than block_size samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
 cinfo->comp_info[0].h_samp_factor = 2 for Y
 cinfo->comp_info[0].v_samp_factor = 2
 cinfo->comp_info[1].h_samp_factor = 1 for Cb
 cinfo->comp_info[1].v_samp_factor = 1
 cinfo->comp_info[2].h_samp_factor = 1 for Cr
 cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same

for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines
on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the
incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output,
set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*block_size scanlines (scanline counting
is the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input
suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer
to an array of virtual-array
descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress()
to
release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide

the
 DCT coefficients stored in virtual block arrays. You can either pass
block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them
yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
 * Create compression object
 * Set all compression parameters as necessary
 * Request virtual arrays if needed
 * jpeg_write_coefficients()
 * jpeg_finish_compress()
 * Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the
 virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo,
 TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring

Some applications may need to regain control from the JPEG library every so

often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees
 are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is
 set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
```
 long pass_counter; /* work units completed in this pass */
 long pass_limit; /* total number of work units in this pass */
 int completed_passes; /* passes completed so far */
 int total_passes; /* total number of passes expected */
```
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed
 is in
completed_passes. Thus the fraction of work completed may be estimated as
```
  completed_passes + (pass_counter/pass_limit)
  ------------------------------------------
     total_passes
```
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read
(jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object
is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip

need be in
memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate
them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c
either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage

Working memory requirements while performing compression or decompression
depend on image dimensions, image characteristics (such as colorspace and
JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending
   on operating mode and image characteristics (particularly color vs.
   grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and
   upsampling results. The worst case for commonly used sampling factors
   is about 34 bytes * width in pixels for a color image. A grayscale image
   only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG
   file (including progressive JPEGs), or whenever you select buffered-image
    mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's
   3 bytes per pixel for a color image. Worst case (1x1 sampling) requires
   6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a
   128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
This does not count any memory allocated by the application, such as a
buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with
32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip
buffers and quantization pixel buffer. The "fixed-size" data will be
somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK
or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not
have to be fully RAM resident; you can have the library use temporary
files instead
 when the total memory usage would exceed a limit you set.
(But if your OS supports virtual memory, it's probably better to just use
jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need
for color quantization. Also, it needs a full-image DCT coefficient buffer
if Huffman-table optimization is asked for, even if progressive mode is not
requested.

If you need more detailed information about memory usage in a particular
situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by
defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.
Note that a value larger than 8 causes JSAMPLE to be larger than a char,
so it affects the surrounding application's image data.
The sample applications cjpeg and djpeg can support deeper than 8-bit
 data
only for PPM and GIF file formats; you must disable the other file formats

to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more
information about that.)
Run-time selection and conversion of data precision are currently not
supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a
single instance, since it operates on the level of DCT coefficients and
not sample values.
(If you need to include an 8-bit library and a 9-bit to 12-bit library for
compression or decompression in a single application, you could probably do
it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd
have to access the 8-bit and the 9-bit to 12-bit copies from separate
application source files. This is untested ... if you try it, we'd like to
hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision.
If you selected more than 8-bit data precision, cjpeg uses arithmetic coding
by default.
 The Huffman encoder normally uses entropy optimization to
compute usable tables for higher precision. Otherwise, you'll have to
supply different default Huffman tables. You may also want to supply your
own DCT quantization tables; the existing quality-scaling code has been
developed for 8-bit use, and probably doesn't generate especially good tables
for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we
expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve
performance or reduce memory space by tweaking the various typedefs in
jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s
is quite slow; consider trading memory for speed by making JCOEF, INT16, and
UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make
 JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;

you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg
are slightly less so. This section summarizes
the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by
modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory

manager
"back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.

The
JPEG library typically needs 2Kb-3Kb of stack space. It will also
malloc about 20K-30K of near heap space while executing (and lots of far
heap, but that doesn't count in this calculation). This figure will vary
depending on selected operating mode, and to a lesser extent on image size.
There is also about 5Kb-6Kb of constant data which will be allocated in the
near data segment (about 4Kb of this is the error message table).
Thus you have perhaps 20K available for other modules' static data and near
heap space before you need to go to a larger memory model. The C library's
static data will account for several K of this, but that still leaves a good
deal for your needs. (If you are tight on space, you could reduce the sizes
of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to
1K. Another possibility is to move the error message table to far memory;
this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent"
memory that will not be
released until you destroy the JPEG object. This is only an issue if you
save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large
images. The most memory-intensive case is decompression with two-pass color
quantization, or single-pass quantization to an externally supplied color
map. This requires a 128Kb color lookup table plus strip buffers amounting

to about 40 bytes per column for typical sampling ratios (eg, about 25600
bytes for a 640-pixel-wide image). You may not be able to process wide
images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model
compiler, such as DJGPP or Watcom C. We highly recommend flat model if you
can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

1.284 qt 4.8.5

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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```
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/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.      * */
/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                    * */
/* * This library's function
 is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing          * */
/* * component! It does however offer creation and editing functionality    * */
/* * at the chunk level.                                 * */
/* * (future modifications may include some more support for creation       * */
/* *  and or editing)                                   * */
/* *                                                  * */
/* ********************************************************************** */
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   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to

ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still
could have occurred during font
opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested
in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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This is JavaScriptCore's variant of the PCRE library. While this library
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1.285 u-boot 2012.04

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

Preamble

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

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

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

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This

license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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.

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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.

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

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

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

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

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

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

libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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1.289 opus 1.1

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1.290 tftp-hpa 0.29

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* @(#)extern.h 8.1 (Berkeley) 6/6/93
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```

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*
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*/

Found in path(s):
* /distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.c

1.291 mini-xml 2.6

1.291.1 Available under license :

Mini-XML License
October 18, 2005

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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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1.292 libnl3 3.2

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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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(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 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.
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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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the work with the complete corresponding
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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
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which the executable runs, unless that component itself accompanies
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Version 2.1, February 1999

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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
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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.

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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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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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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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file.
WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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implementation of MCS (Mellor-Crummey/Scott) locks.
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```
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```

```
 * the MNG and JNG file format in commercial products.  If you use this   * */
/* * source code in a product, acknowledgment would be highly appreciated.  * */
/* *                                                                       * */
/* ********************************************************************** */
/* *                                                                       * */
/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.      * */
/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                                       * */
/* * This library's function
 is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing          * */
/* * component! It does however offer creation and editing functionality    * */
/* * at the chunk level.                                                   * */
/* * (future modifications may include some more support for creation       * */
/* *  and or editing)                                                      * */
/* *                                                                       * */
/* ********************************************************************** */
<!DOCTYPE UI><UI version="3.0" stdsetdef="1">
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<widget class="QWidget">
  <property name="name">
    <cstring>License</cstring>
  </property>
  <property name="geometry">
    <rect>
      <x>0</x>
      <y>0</y>
      <width>506</width>
      <height>359</height>
    </rect>
  </property>
  <property name="sizePolicy">
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      <vsizetype>7</vsizetype>
      <horstretch>0</horstretch>
      <verstretch>0</verstretch>
    </sizepolicy>
  </property>
  <property name="caption">
    <string>License</string>
  </property>
  <vbox>
    <property name="name">
```

```
      <cstring>unnamed</cstring>
    </property>
    <property name="margin">
      <number>0</number>
    </property>
    <property name="spacing">
      <number>6</number>
    </property>
    <widget class="QLayoutWidget">
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name="name">
        <cstring>Layout92</cstring>
      </property>
      <vbox>
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          <cstring>unnamed</cstring>
        </property>
        <property name="margin">
          <number>0</number>
        </property>
        <property name="spacing">
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          </property>
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              <cstring>unnamed</cstring>
            </property>
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            </property>
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              <number>0</number>
             </property>
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```

```
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                    </property>
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                    </property>
                  </widget>
                  <widget class="QLabel">
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name="name">
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                    </property>
                    <property name="sizePolicy">
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                        <verstretch>0</verstretch>
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                    </property>
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                    </property>
                    <property name="scaledContents">
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                    </property>

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                  </hbox>
                </widget>
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                    <enum>HLine</enum>
                  </property>
                  <property name="frameShadow">
                    <enum>Sunken</enum>
                  </property>
                  <property name="orientation">
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                </widget>
              </vbox>
```

```
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    <widget class="QLayoutWidget">
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      </property>
      <vbox>
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        </property>
        <property
name="margin">
          <number>11</number>
        </property>
        <property name="spacing">
          <number>6</number>
        </property>
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          </property>
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              <vsizetype>5</vsizetype>
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              <verstretch>0</verstretch>
            </sizepolicy>
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          </property>
        </widget>
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            <cstring>file</cstring>
           </property>
          <property name="sizePolicy">
            <sizepolicy>
              <hsizetype>7</hsizetype>
              <vsizetype>7</vsizetype>
              <horstretch>0</horstretch>
              <verstretch>0</verstretch>
            </sizepolicy>
          </property>
          <property name="textFormat">
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          </property>
        </widget>
```

```
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                <cstring>question</cstring>
              </property>
              <property name="sizePolicy">
                <sizepolicy>
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                  <vsizetype>5</vsizetype>
                  <horstretch>0</horstretch>

                  <verstretch>0</verstretch>
                </sizepolicy>
              </property>
              <property name="frameShape">
                <enum>NoFrame</enum>
              </property>
              <property name="frameShadow">
                <enum>Plain</enum>
              </property>
              <property name="textFormat">
                <enum>RichText</enum>
              </property>
            </widget>
          </vbox>
        </widget>
      </vbox>
    </widget>
    <images>
      <image name="image0">
        <data format="XPM.GZ"
length="171">789cd3d7528808f055d0d2e72a2e492cc94c5648ce482c52d04a29cdcdad8c8eb5ade652b250b0503052
3054d2e152d2534856503600031057l9c44d0303b0ac9e3210e8e941d87a2026980da2417c301bcc51c66423a941d60
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      </image>
    </images>
    <layoutdefaults spacing="6" margin="11"/>
    </UI>
```

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Copyright FAQ
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1. I don't understand the resale restriction... What gives?

   Bitstream is giving away these fonts, but wishes to ensure its
   competitors can't just drop the fonts as is into a font sale system
   and sell them as is. It seems fair that if Bitstream can't make money
   from
the Bitstream Vera fonts, their competitors should not be able to
   do so either. You can sell the fonts as part of any software package,
   however.

2. I want to package these fonts separately for distribution and
   sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin
   with, and you aren't selling them independently by themselves.
   See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the
   quality of the fonts, both to protect Bitstream and Gnome. We want to
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   substitutions could still
could have occurred during font
   opening). You must include the Bitstream copyright. Additional
   copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
    adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has
   provisions for working with Bitstream to ensure quality additions to

the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested
in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

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This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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1.306 elfutils 0.176-2.el7

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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute
it
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

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<signature of Ty Coon>, 1 April 1989
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
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"Major Component", in this context, means a major essential component
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1.307 curl 7.19.4

1.307.1 Available under license :

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==========

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[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

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announcement clause that makes it "incompatible" with GPL. You are not
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that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

GnuTLS

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WolfSSL

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libressl

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c-ares

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OpenLDAP

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libssh2

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1.308 util-linux 2.19.0

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NR START END SECTORS SIZE NAME UUID
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2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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3.1.0 / 2017-09-26
==========

 * Add `DEBUG_HIDE_DATE` env var (#486)
 * Remove ReDoS regexp in %o formatter (#504)
 * Remove "component" from package.json
 * Remove `component.json`
 * Ignore package-lock.json
 * Examples: fix colors printout
 * Fix: browser detection
 * Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24
==========

* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08
==========

* Breaking: Remove DEBUG_FD (#406)
* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
* Addition: document `enabled` flag (#465)
* Addition: add 256 colors mode (#481)
* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
* Update: component: update "ms" to v2.0.0
* Update: separate the Node and Browser tests in Travis-CI
* Update:
refactor Readme, fixed documentation, added "Namespace Colors" section, redid screenshots
* Update: separate Node.js and web browser examples for organization
* Update: update "browserify" to v14.4.0
* Fix: fix Readme typo (#473)

2.6.9 / 2017-09-22
==========

* remove ReDoS regexp in %o formatter (#504)

2.6.8 / 2017-05-18
==========

* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16
==========

* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
* Fix: Inline extend function in node implementation (#452, @dougwilson)
* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27
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* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
* Misc: clean up browser reference checks (#447, @thebigredgeek)
* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20
==========

* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13
==========

* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10
==========

* Fix: DEBUG_MAX_ARRAY_LENGTH (#420, @slavaGanzin)
* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10
==========

* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
* Fix: Whitelist DEBUG_FD for values 1 and 2 only (#415, @pi0)
* Fix: IE8 "Expected identifier" error (#414, @vgoma)
* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28
==========

* Fix: added better null pointer checks for browser useColors
(@thebigredgeek)
* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
* Improvement: deprecated `DEBUG_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25
==========

* Fix: reference error on window within webworkers (#393, @KlausTrainer)
* Docs: fixed README typo (#391, @lurch)
* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20
==========

* Fix: babel-core compatibility

2.5.0 / 2016-12-20
==========

* Fix: wrong reference in bower file (@thebigredgeek)
* Fix: webworker compatibility (@thebigredgeek)
* Fix: output formatting issue (#388, @kribblo)
* Fix: babel-loader compatibility (#383, @escwald)
* Misc: removed built asset from repo and publications (@thebigredgeek)
* Misc: moved source files to /src (#378, @yamikuronue)
* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
* Test: coveralls integration (#378,
@yamikuronue)
* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17
==========

* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
* Fix: custom log function (#379, @hsiliev)
* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
* Improvement: rm non-maintainted `dist/` dir (#375, @freewil)
* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14
==========

* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

2.4.3 / 2016-12-14
==========

* Fix: navigation.userAgent error for react native (#364, @escwald)

2.4.2 / 2016-12-14
==========

* Fix: browser colors (#367, @tootallnate)
* Misc: travis ci integration (@thebigredgeek)
* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

2.4.1 / 2016-12-13
==========

* Fix: typo that broke the package (#356)

2.4.0 / 2016-12-13
==========

* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
* Fix: revert "handle regex special characters" (@tootallnate)
* Feature: configurable util.inspect()`options for NodeJS (#327, @tootallnate)

 * Feature: %O`(big O) pretty-prints objects (#322, @tootallnate)
 * Improvement: allow colors in workers (#335, @botverse)
 * Improvement: use same color for same namespace. (#338, @lchenay)

2.3.3 / 2016-11-09
==========

 * Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
 * Fix: Returning `localStorage` saved values (#331, Levi Thomason)
 * Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

2.3.2 / 2016-11-09
==========

 * Fix: be super-safe in index.js as well (@TooTallNate)
 * Fix: should check whether process exists (Tom Newby)

2.3.1 / 2016-11-09
==========

 * Fix: Added electron compatibility (#324, @paulcbetts)
 * Improvement: Added performance optimizations (@tootallnate)
  * Readme: Corrected PowerShell environment variable example (#252, @gimre)
 * Misc: Removed yarn lock file from source control (#321, @fengmk2)

2.3.0 / 2016-11-07
==========

 * Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
 * Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
 * Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
 * Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
 * Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
 * Package: Update "ms" to 0.7.2 (#315, @DevSide)
 * Package: removed superfluous version property from bower.json (#207 @kkirsche)
 * Readme: fix USE_COLORS to DEBUG_COLORS
 * Readme: Doc fixes for format string sugar (#269, @mlucool)
 * Readme: Updated docs for DEBUG_FD and DEBUG_COLORS environment variables (#232, @mattlyons0)
 * Readme: doc fixes for PowerShell (#271 #243, @exoticknight
@unreadable)
 * Readme: better docs for browser support (#224, @matthewmueller)
 * Tooling: Added yarn integration for development (#317, @thebigredgeek)
 * Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
 * Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
 * Misc: Updated contributors (@thebigredgeek)

2.2.0 / 2015-05-09
==========

 * package: update "ms" to v0.7.1 (#202, @dougwilson)
 * README: add logging to file example (#193, @DanielOchoa)
 * README: fixed a typo (#191, @amir-s)
 * browser: expose `storage` (#190, @stephenmathieson)
 * Makefile: add a `distclean` target (#189, @stephenmathieson)

2.1.3 / 2015-03-13
==========

 * Updated stdout/stderr example (#186)
 * Updated example/stdout.js to match debug current behaviour
 * Renamed example/stderr.js to stdout.js
 * Update Readme.md (#184)
 * replace high intensity foreground color for bold (#182, #183)

2.1.2 / 2015-03-01
==========

 * dist: recompile
 *
 update "ms" to v0.7.0
 * package: update "browserify" to v9.0.3
 * component: fix "ms.js" repo location
 * changed bower package name
 * updated documentation about using debug in a browser
 * fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29
==========

 * browser: use `typeof` to check for `console` existence
 * browser: check for `console.log` truthiness (fix IE 8/9)
 * browser: add support for Chrome apps
 * Readme: added Windows usage remarks
 * Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15
==========

 * node: implement `DEBUG_FD` env variable support
 * package: update "browserify" to v6.1.0
 * package: add "license" field to package.json (#135, @panuhorsmalahti)

2.0.0 / 2014-09-01
==========

 * package: update "browserify" to v5.11.0

 * node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15
==========

 * dist: recompile
 * example: remove `console.info()`
 log usage
 * example: add "Content-Type" UTF-8 header to browser example
 * browser: place %c marker after the space character
 * browser: reset the "content" color via `color: inherit`
 * browser: add colors support for Firefox >= v31
 * debug: prefer an instance `log()` function over the global one (#119)
 * Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09
==========

 * Add support for multiple wildcards in namespaces (#122, @seegno)
 * browser: fix lint

1.0.2 / 2014-06-10
==========

 * browser: update color palette (#113, @gscottolson)
 * common: make console logging function configurable (#108, @timoxley)
 * node: fix %o colors on old node <= 0.8.x
 * Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06
==========

 * browser: use `removeItem()` to clear localStorage
 * browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
 * package:
 add "contributors" section
 * node: fix comment typo
 * README: list authors

1.0.0 / 2014-06-04
==========

 * make ms diff be global, not be scope
 * debug: ignore empty strings in enable()
 * node: make DEBUG_COLORS able to disable coloring
 * *: export the `colors` array
 * npmignore: don't publish the `dist` dir
 * Makefile: refactor to use browserify

 * package: add "browserify" as a dev dependency
 * Readme: add Web Inspector Colors section
 * node: reset terminal color for the debug content
 * node: map "%o" to `util.inspect()`
 * browser: map "%j" to `JSON.stringify()`
 * debug: add custom "formatters"
 * debug: use "ms" module for humanizing the diff
 * Readme: add "bash" syntax highlighting
 * browser: add Firebug color support
 * browser: add colors for WebKit browsers
 * node: apply log to `console`
 * rewrite: abstract common logic for Node & browsers
 * add .jshintrc file

0.8.1 / 2014-04-14
==========

 * package: re-add the
 "component" section

0.8.0 / 2014-03-30
==========

 * add `enable()` method for nodejs. Closes #27
 * change from stderr to stdout
 * remove unnecessary index.js file

0.7.4 / 2013-11-13
==========

 * remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30
==========

 * fix: catch localStorage security error when cookies are blocked (Chrome)
 * add debug(err) support. Closes #46
 * add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06
==========

 * fix package.json
 * fix: Mobile Safari (private mode) is broken with debug
 * fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05
==========

 * add repository URL to package.json
 * add DEBUG_COLORED to force colored output
 * add browserify support
 * fix component. Closes #24

0.7.0 / 2012-05-04
==========

 * Added .component to package.json
 * Added
 debug.component.js build

0.6.0 / 2012-03-16
==========

 * Added support for "-" prefix in DEBUG [Vinay Pulim]
 * Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02
==========

 * Added: humanize diffs. Closes #8
 * Added `debug.disable()` to the CS variant
 * Removed padding. Closes #10
 * Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01
==========

 * Added browser variant support for older browsers [TooTallNate]
 * Added `debug.enable('project:*')` to browser variant [TooTallNate]
 * Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26
==========

 * Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22
==========

 * Added wildcard support

0.1.0 / 2011-12-02
==========

 * Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03
==========

 * Initial release
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##

BezierEasing - use bezier curve for transition easing function
by Gatan Renaudeau 2014 - 2015 MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
spline.get(x) => returns the easing value | x must be in [0, 1] range
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//* intact.
//*
//* Enhancements by Stanley Yamane:
//*   o reverse lookup table for the decode function
//*   o reserve string buffer space in advance
//*
//**

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* g711.h - In line A-law and u-law conversion routines
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
==

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* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
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*
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*
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* Computer Science, Speech Group
* Chengxiang Lu and Alex Hauptmann
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machine-readable source code, which
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#!/usr/bin/env node

/*
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*/

var checker = require('../lib/index');

```
var args = require('../lib/args').parse();
var mkdirp = require('mkdirp');
var path = require('path');
var chalk = require('chalk');
var fs = require('fs');

if (args.help) {
  console.error('license-checker@' + require('../package.json').version);
  var usage = [
    '',
    '  --production only show production dependencies.',
    '  --development only show development dependencies.',
    '  --unknown report guessed licenses as unknown licenses.',
    '  --start [path of the initial json to look for]',
    '  --onlyunknown only list packages with unknown or guessed licenses.',
    '  --json output in json format.',
    '  --csv output in csv format.',
    '  --csvComponentPrefix column prefix for components in csv file',
    '  --out [filepath] write
 the data to a specific file.',
    '  --customPath to add a custom Format file in JSON',
    '  --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
    '  --relativeLicensePath output the location of the license files as relative paths',
    '  --summary output a summary of the license usage',
    '  --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
    '  --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated
list',
    '  --direct look for direct dependencies only',
    '  --packages [list] restrict output to the packages (package@version) in the semicolon-seperated list',
    '  --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-seperated
list',
    '  --excludePrivatePackages restrict output to not include any package marked
 as private',
    '',
    '  --version The current version',
    '  --help  The text you are reading right now :)',
    ''
  ];
  console.error(usage.join('\n'), '\n');
  process.exit(0);
}

if (args.version) {
  console.error(require('../package.json').version);
  process.exit(1);
}

if (args.failOn && args.onlyAllow) {
```

```
  console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
  process.exit(1);
} else {
  var argValue = args.failOn || args.onlyAllow;
  if (argValue && argValue.indexOf(',') >= 0) {
     var argName = args.failOn ? 'failOn' : 'onlyAllow';
     console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimeters instead of
commas (some license names can contain commas)');
  }
}

checker.init(args, function(err, json) {

  var formattedOutput = '';

  if (!!err) {
     console.error('Found error');
     console.error(err);
  }

  if (shouldColorizeOutput(args))
 {
     var keys = Object.keys(json);
     keys.forEach(function(key) {
        var keyParts = key.split('@');
        var colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
        json[colorizedKey] = json[key];
        delete json[key];
     });
  }

  if (args.json) {
     formattedOutput = JSON.stringify(json, null, 2) + '\n';
  } else if (args.csv) {
     formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
  } else if (args.markdown){
     formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
  } else if (args.summary) {
     formattedOutput = checker.asSummary(json);
  } else {
     formattedOutput = checker.asTree(json);
  }

  if (args.files) {
     checker.asFiles(json, args.files);
  } else if (args.out) {
     var dir = path.dirname(args.out);
     mkdirp.sync(dir);
```

```
      fs.writeFileSync(args.out, formattedOutput,
 'utf8');
  } else {
      console.log(formattedOutput);
  }
});

function shouldColorizeOutput(args) {
  return args.color && !args.out && !(args.csv || args.json || args.markdown);
}
```

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PURPOSE, TITLE AND
NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND,

HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE
LIABILITY UNDER THIS AGREEMENT EXCEED
THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically
otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information").

Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes
generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information
to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant

to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this
Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment
Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company,

Licensee shall provide an
exemption certificate to The Qt Company and any
applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company,
(iii) number of undistributed copies of Redistributables
and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's usiness activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct
necessary interviews of Licensee's relevant employees and
Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the

terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew

the Development
License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may
reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such
date of expiry, and which the Licensee has
not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this

Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be
administered by JAMS pursuant to JAMS'
Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal
shall
consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party
Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement
will prevail over the terms of
the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute
acceptance of
such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The
 modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X, R	X, R			
Qt GUI	X, R	X, R			
Qt Multimedia	X, R	X, R			
Qt Multimedia Widgets	X, R	X, R			
Qt Network	X, R	X, R			
Qt QML	X, R	X, R			
Qt Quick	X, R	X, R			
Qt Quick Controls 2	X, R	X, R			
Qt Quick Dialogs	X, R	X, R			
Qt Quick Layouts	X, R	X, R

| | | | |
+---+---+---+---+
| Qt Quick Test | X, R | X, R | | | |
+---+---+---+---+
| Qt SQL | X, R | X, R | | | |
+---+---+---+---+
| Qt Test | X, R | X, R | | | |
+---+---+---+---+
| Qt Widgets | X, R | X, R | | | |
+---+---+---+---+
| Active Qt | X, R | X, R | | | |
+---+---+---+---+
| Qt 3D | X, R | X, R | | | |
+---+---+---+---+
| Qt Android Extras | X, R | X, R | | | |
+---+---+---+---+
| Qt Bluetooth | X, R | X, R | | | |
+---+---+---+---+
| Qt Canvas 3D | X, R | X, R | | | |
+---+---+---+---+
| Qt Concurrent | X, R | X, R | | | |
+---+---+---+---+
| Qt D-Bus | X, R | X, R | | | |
+---+---+---+---+
| Qt Gamepad | X, R | X, R | | | |
+---+---+---+---+
| Qt Graphical Effects | X, R | X, R | | | |
+---+---+---+---+
| Qt Help | X, R | X, R | | | |
+---+---+---+---+
| Qt Image Formats | X, R | X, R | | | |
+---+---+---+---+
| Qt Location | X, R | X, R | | | |
+---+---+---+---+
| Qt Mac Extras | X, R | X, R | | | |
+---+---+---+---+
| Qt Network Authorization | X, R | X, R | | | |
+---+---+---+---+
| Qt NFC | X, R | X, R | | | |
+---+---+---+---+
| Qt Platform Headers | X, R | X, R | | | |
+---+---+---+---+
| Qt Positioning | X, R | X, R | | | |
+---+---+---+---+
| Qt Print Support | X, R | X, R | | | |

Qt Purchasing	X, R	X, R			
Qt for Python	X, R	X, R			
Qt Quick Controls	X, R	X, R			
Qt Quick Extras	X, R	X, R			
Qt Quick Widgets	X, R	X, R			
Qt SCXML	X, R	X, R			
Qt Sensors	X, R	X, R			
Qt Serial Bus	X, R	X, R			
Qt Serial Port	X, R	X, R			
Qt Speech	X, R	X, R			
Qt SVG	X, R	X, R			
Qt UI Tools	X, R	X, R			
Qt WebChannel	X, R	X, R			
Qt WebEngine	X, R	X, R			
Qt WebSockets	X, R	X, R			
Qt WebView	X, R	X, R			
Qt Windows Extras	X, R	X, R			
Qt X11 Extras	X, R	X, R			
Qt XML	X, R	X, R			
Qt XML Patterns	X, R	X, R			
Qt Wayland Compositor	X, R	X, R			
Qt Charts	X, R	X, R			

| Qt Data visualization | X, R | X, R | | | |
+---+---+---+---+---+---+
| Qt Virtual Keyboard | X, R | X, R | | | |
+---+---+---+---+---+---+
| Boot 2 Qt stack | | X, R | | | |
+---+---+---+---+---+---+
|
Qt OTA | | X, R | | | |
+---+---+---+---+---+---+
| Device Utilities | | X, R | | | |
+---+---+---+---+---+---+
| Qt Debugging Bridge (QDB) Daemon | | X, R | | | |
+---+---+---+---+---+---+
| Qt Quick Ultralite Controls | | | X, R | | |
+---+---+---+---+---+---+
| Qt Quick Ultralite | | | X, R | | |
+---+---+---+---+---+---+
| Qt Creator | X | X | X | | |
+---+---+---+---+---+---+
| Qt Designer (Qt Widget Designer) | X | X |
| | |
+---+---+---+---+---+---+
| Qt Quick Designer (Qt Creator | X | X | X | | |
| plugin) | | | | | |
+---+---+---+---+---+---+
| Qt Linguist | X | X | X | | |
+---+---+---+---+---+---+
| Qt Assistant | X | X | X | | |
+---+---+---+---+---+---+
| Lupdate | X | X | X | | |
+---+---+---+---+---+---+
| Lrelease | X | X | X | | |
+---+---+---+---+---+---+
| Qmake | X | X | | | |
+---+---+---+---+---+---+
|
Uic | X | X | | | |
+---+---+---+---+---+---+
| Rcc | X | X | | | |
+---+---+---+---+---+---+
| Qlalr | X | X | | | |
+---+---+---+---+---+---+
| Qdoc | X | X | | | |
+---+---+---+---+---+---+
| Qmlscene | X | X | | | |
+---+---+---+---+---+---+
| Qmlviewer | X | X | | | |
+---+---+---+---+---+---+

| Target toolchains | | X | X |
| | |
+---+
| Qt Debugging Bridge (QDB) Host | | X | | | |
| Tools | | | | | |
+---+
| qtconfig-gui | | X | | | |
+---+
| Qt Emulator | | X | | | |
+---+
| Qmlinterfacegenerator | | | X | | |
+---+
| Qmltocpp | | | X | | |
+---+
| qulfontcompiler | | | X | | |
+---+
|
Qt53DStudioRuntime2 | | | | X, R | |
+---+
| Qt 3D Studio | | | | X | |
+---+
| Qt Design Studio | | | | | X |
+---+

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table.

Parts of the respective Add-On Product that are permitted for distribution in
object-code form only ("Redistributables") are marked with 'R' in the below table.

+---+
| | Add-On Product(s) |
| +---+
Modules / Tools of	Qt for	Qt	Qt	Qt	Qt	Qt
Licensed Software	Automation	Automotive	Safe	Application	GammaRay	Deployment
	/ Qt M2M	Suite	Renderer	Manager		Platform
	Protocols					Package
+---+

Qt MQTT	X, R					
Qt KNX	X, R					
Qt OPC UA	X, R					
Qt CoAP	X, R					
Qt Safe Renderer		X, R	X, R			
Qt Application Manager		X, R		X, R		
Qt IVI		X, R				
Reference UI		X, R				
Qt GENIVI Extras		X, R				
QML Live		X				
Qt Creator Deployment			X			
Qt Creator Plugin for Qt Application Manager		X		X		
Qt Automotive Suite Deployment Server		X				
Qt Design Studio		X				
Qt 3D Studio		X				
GammaRay		X			X	
Platform adaptations for specified Deployment Platforms						X
Qt for Device Creation		X				

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for installation related issues.

Upon expiry of the respective License
Term, the Start-up Development
Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal Development Licenses (if the Licensee no longer qualifies as a Start-up ompany).

APPENDIX 5: NON-COMMERCIAL USE
The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

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eigen3
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applies to:
./test/mapstaticmethods.cpp
./test/schur_real.cpp
./test/prec_inverse_4x4.cpp
./test/smallvectors.cpp
./test/redux.cpp
./test/special_numbers.cpp
./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp

./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp
./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
./test/umeyama.cpp
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./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp

./test/eigensolver_complex.cpp
./test/cholmod_support.cpp
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./test/array_replicate.cpp
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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.

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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.

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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./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h
./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h
./unsupported/Eigen/src/LevenbergMarquardt/LMpar.h
./unsupported/Eigen/src/LevenbergMarquardt/LMqrsolv.h

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--- end of FTL.TXT ---

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Main Mesa code	src/mesa/	Brian Paul	Mesa (MIT)
Device drivers	src/mesa/drivers/*	See drivers	See drivers
Ext headers	include/GL/glext.h include/GL/glxext.h	SGI	SGI Free B
GLUT	src/glut/	Mark Kilgard	Mark's copyright
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demo programs	progs/demos/	various	see source files
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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!

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javascript/jquery_ui

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java_src/android_libs/exoplayer
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libxcb

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****
libxml
****
Libxml2, an XML C Parser

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zlib

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jloup@gzip.org madler@alumni.caltech.edu

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mongoose
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objective_c/gtm_session_fetcher
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Support Term shall be automatically extended to one or more Support Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the Support, such notification to be provided to the other Party no less than ninety (90) days before expiry of the Initial Support Term or respective Support Renewal Term. During any such Support Renewal Term Support shall be available subject to prices and terms agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Support Renewal Term. From time to time The Qt Company may change Support provided within each Support plan; provided that during the respective Initial Support Term or Support Renewal Term (as the case may be), the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for
providing
any service or support to the Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval;
and (iii) not, directly or indirectly, use the Confidential
Information for any purpose other than for exercising its rights and fulfilling

its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving
Party; (iv) is lawfully disclosed to the
Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License
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10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order")

for confirmation, whereupon the Purchase Order shall become binding between the Parties.

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10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past
due.

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10.5 Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance
with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice
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expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment
of more than 5% of License Fees shall always be
deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate
this Agreement immediately upon
written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period

of six (6)
months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and
therein incorporated
Redistributables).

13.GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude
parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted
in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1 No Assignment Licensee

shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2 No Third Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so
be deemed to survive.

14.4 Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein. In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

14.5 Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order shall apply unless expressly accepted by The Qt Company in writing.

14.6 Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non- performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non- performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7 Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for The Qt Company in the beginning of this Agreement, and for the Licensee in the Licensees account profile. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8 Export Control

Licensee acknowledges that the Redistributables may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all lawses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re- exportation of the Redistributables, Applications and/or Devices.

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14.10 Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11 Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

IN WITNESS WHEREOF, the Parties hereto, intending to be legally bound hereby, have caused this Agreement to be executed by Licensees authorized representative installing the Licensed Software and accepting the terms hereof in connection therewith.

Appendix 1

1. Parts of the Licensed Software that are permitted for distribution in object code form only ("Redistributables") under this Agreement:

- The Licensed Software's essential and add-on libraries

- The Licensed Software's configuration tool ("qtconfig")

- The Licensed Software's help tool ("Qt Assistant")

- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate", "lrelease")

- The Licensed Software's QML ("Qt Quick") launcher tool ("qmlscene" and "qmlviewer")

- The Licensed Software's installer framework

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to:

- The Licensed Software's source code and header files

- The Licensed Software's documentation

- The Licensed Software's documentation generation tool ("qdoc")

- The Licensed Software's tool for writing makefiles ("qmake")

- The Licensed Software's Meta Object Compiler ("moc")

- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed
Software's Resource Compiler ("rcc")

- The Licensed Software's generator (only in the case of Qt Jambi if applicable)

- The Licensed Software's parts of the IDE tool ("Qt Creator")

- The Licensed Software's Emulator

- Build scripts, recipes and other material for creating the
configuration of Licensed Software and/or 3rd party components, including the
reference operating system configuration delivered in conjunction with the
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* Written by Wilco Dijkstra, 1996. The following email exchange establishes the
* license.
*
* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message -----
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/
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/*
* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
* This program uses the PortAudio Portable Audio Library.
* For more information see: http://www.portaudio.com
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* license above.
*/

/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author:
 Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
*
* This program uses the PortAudio Portable Audio Library.
* For more information see: http://www.portaudio.com
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Mesa 3-D graphics library
Version: 7.0

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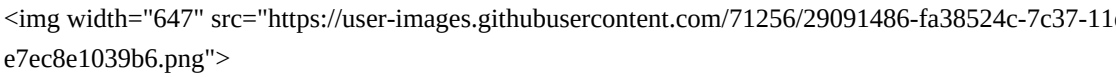

A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

Installation

```bash
$ npm install debug
```

Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error`
for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [_app.js_](./examples/node/app.js):

```js
```

```
var debug = require('debug')('http')
 , http = require('http')
 , name = 'My App';

// fake app

debug('booting %o', name);

http.createServer(function(req, res){
 debug(req.method + ' ' + req.url);
 res.end('hello\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

require('./worker');
```

Example [_worker.js_](./examples/node/worker.js):

```js
var a = require('debug')('worker:a')
 , b = require('debug')('worker:b');

function work() {
 a('doing lots of uninteresting work');
 setTimeout(work, Math.random() * 1000);
}

work();

function workb() {
 b('doing some work');
 setTimeout(workb, Math.random() * 2000);
}

workb();
```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here
 are some examples:

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images.githubusercontent.com/71256/29091703-a6302cdc-7c38-11e7-8304-7c0b3bc600cd.png">
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Windows command prompt notes

CMD

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Example:

```cmd
set DEBUG=* & node app.js
```

PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```cmd
$env:DEBUG = "*,-not_this"
```

Example:

```cmd
$env:DEBUG='app';node app.js
```

Then, run the program to be debugged as usual.

npm script example:
```js
 "windowsDebug":
 "@powershell -Command $env:DEBUG='*';node app.js",
```

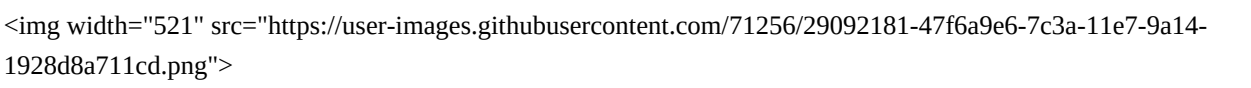
Namespace Colors

Every debug instance has a color generated for it based on its namespace name.
This helps when visually parsing the debug output to identify which debug instance

a debug line belongs to.

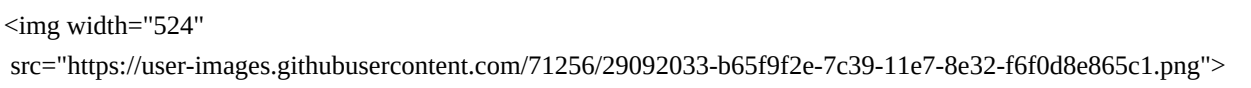
Node.js

In Node.js, colors are enabled when stderr is a TTY. You also _should_ install
the [`supports-color`](https://npmjs.org/supports-color) module alongside debug,
otherwise debug will only use a small handful of basic colors.



Web Browser

Colors are also enabled on "Web Inspectors" that understand the `%c` formatting
option. These are WebKit web inspectors, Firefox ([since version
31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/))
and the Firebug plugin for Firefox (any version).



Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

When stdout is not a TTY, `Date#toISOString()` is used, making it more useful for logging the debug information as shown below:

Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a "*" to the end of your name, it will always be enabled regardless of the setting of the DEBUG environment variable. You can then use it for normal output as well as debug output.

Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has
debuggers named "connect:bodyParser", "connect:compress", "connect:session",
instead of listing all three with
`DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do
`DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character.
For example, `DEBUG=*,-connect:*` would include all debuggers except those
starting with "connect:".

Environment Variables

When running through Node.js, you can set a few environment
 variables that will
change the behavior of the debug logging:

Name	Purpose
`DEBUG`	Enables/disables specific debugging namespaces.
`DEBUG_HIDE_DATE`	Hide date from debug output (non-TTY).
`DEBUG_COLORS`	Whether or not to use colors in the debug output.
`DEBUG_DEPTH`	Object inspection depth.
`DEBUG_SHOW_HIDDEN`	Shows hidden properties on inspected objects.

__Note:__ The environment variables beginning with `DEBUG_` end up being
converted into an Options object that gets used with `%o`/`%O` formatters.
See the Node.js documentation for
[`util.inspect()`](https://nodejs.org/api/util.html#util_util_inspect_object_options)
for the complete list.

Formatters

Debug uses [printf-style](https://wikipedia.org/wiki/Printf_format_string) formatting.
Below are the officially supported formatters:

| Formatter | Representation
 |
|---|---|
| `%O` | Pretty-print an Object on multiple lines. |
| `%o` | Pretty-print an Object all on a single line. |
| `%s` | String. |
| `%d` | Number (both integer and float). |
| `%j` | JSON. Replaced with the string '[Circular]' if the argument contains circular references. |
| `%%` | Single percent sign ('%'). This does not consume an argument. |

Custom formatters

You can add custom formatters by extending the `debug.formatters` object.
For example, if you wanted to add support for rendering a Buffer as hex with
`%h`, you could do something like:

```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
 return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
//   foo this is hex: 68656c6c6f20776f726c6421 +0ms
```

Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify),
or
 just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest),
if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`.
Consider the situation shown below where you have `worker:a` and `worker:b`,
and wish to debug both. You can enable this using `localStorage.debug`:

```js
localStorage.debug = 'worker:*'
```

And then refresh the page.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
 a('doing some work');
}, 1000);

setInterval(function(){
 b('doing some work');
}, 1200);
```

```

## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [_stdout.js_](./examples/node/stdout.js):

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log
 = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

Extend
You can simply extend debugger
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```

Set dynamically

You can also enable debug dynamically by calling the `enable()` method :
```

```js
let debug = require('debug');

console.log(1, debug.enabled('test'));

debug.enable('test');
console.log(2, debug.enabled('test'));

debug.disable();
console.log(3, debug.enabled('test'));

```

print :
```
1
 false
2 true
3 false
```

Usage :
`enable(namespaces)`
`namespaces` can include modes separated by a colon and wildcards.

Note that calling `enable()` completely overrides previously set DEBUG variable :

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
```

Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is
enabled by checking the `enabled` property:

```javascript
const debug = require('debug')('http');

if (debug.enabled) {
 // do stuff...
}
```

You can also manually toggle this property to force the debug instance to be
enabled or disabled.

Authors

- TJ Holowaychuk
- Nathan Rajlich
- Andrew Rhyne

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  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/tests/swresample.c`

  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
-
 the following filters in libavfilter:
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  - `vf_boxblur.c`
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  - `vf_cover_rect.c`
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  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_nnedi.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`
  - `vf_sab.c`
  - `vf_signature.c`
  - `vf_smartblur.c`
  - `vf_spp.c`
  - `vf_stereo3d.c`
  - `vf_super2xsai.c`
  - `vf_tinterlace.c`
  - `vf_uspp.c`
  - `vf_vaguedenoiser.c`
  - `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then
the configure parameter `--enable-version3` will activate this licensing option
for you. Read the file `COPYING.LGPLv3`
 or, if you have enabled GPL parts,
`COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and

`libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for
licensing details. Specifically note that you must credit the IJG in the
documentation accompanying your program if you only distribute executables.
You must also indicate any changes including additions and deletions to
those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes
affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
-
libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by
passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to
upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License
2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with
version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg,
the options `--enable-gpl` and `--enable-version3` have to be passed to
configure to upgrade FFmpeg to the GPL v3.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If
you wish to enable these
libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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language: node_js
node_js:
 - '0.12'
 - '4'
 - '6'
 - '7'
before_install:
 - npm install -g npm@latest

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*/

// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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v4.0.1 (2016-12-14)

WHOOPS

* [`fb9b1ce`](https://github.com/npm/nopt/commit/fb9b1ce57b3c69b4f7819015be87719204f77ef6)
 Merged so many patches at once that the code fencing
 ([@adius](https://github.com/adius)) added got broken. Sorry,
 ([@adius](https://github.com/adius))!
 ([@othiym23](https://github.com/othiym23))

v4.0.0 (2016-12-13)

BREAKING CHANGES

* [`651d447`](https://github.com/npm/nopt/commit/651d4473946096d341a480bbe56793de3fc706aa)
 When parsing String-typed arguments, if the next value is `""`, don't simply
 swallow it. ([@samjonester](https://github.com/samjonester))

PERFORMANCE TWEAKS

* [`3370ce8`](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbcdff252a9)
 Simplify initialization. ([@elidoran](https://github.com/elidoran))
* [`356e58e`](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)
 Store `Array.isArray(types[arg])` for reuse.
 ([@elidoran](https://github.com/elidoran))
* [`0d95e90`](https://github.com/npm/nopt/commit/0d95e90515844f266015b56d2c80b94e5d14a07e)
  Interpret single-item type arrays as a single type.
 ([@samjonester](https://github.com/samjonester))
* [`07c69d3`](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)
 Simplify key-value extraction. ([@elidoran](https://github.com/elidoran))
* [`39b6e5c`](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254)
 Only call `Date.parse(val)` once. ([@elidoran](https://github.com/elidoran))
* [`934943d`](https://github.com/npm/nopt/commit/934943dffecb55123a2b15959fe2a359319a5dbd)
 Use `osenv.home()` to find a user's home directory instead of assuming it's
 always `$HOME`. ([@othiym23](https://github.com/othiym23))

TEST & CI IMPROVEMENTS

* [`326ffff`](https://github.com/npm/nopt/commit/326ffff7f78a00bcd316adecf69075f8a8093619)
 Fix `/tmp` test to work on Windows.
 ([@elidoran](https://github.com/elidoran))
* [`c89d31a`](https://github.com/npm/nopt/commit/c89d31a49d14f2238bc6672db08da697bbc57f1b)
  Only run Windows tests on Windows, only run Unix tests on a Unix.
 ([@elidoran](https://github.com/elidoran))
* [`affd3d1`](https://github.com/npm/nopt/commit/affd3d1d0addffa93006397b2013b18447339366)
 Refresh Travis to run the tests against the currently-supported batch of npm
 versions. ([@helio](https://github.com/helio)-frota)
* [`55f9449`](https://github.com/npm/nopt/commit/55f94497d163ed4d16dd55fd6c4fb95cc440e66d)
 `tap@8.0.1` ([@othiym23](https://github.com/othiym23))

DOC TWEAKS

* [`5271229`](https://github.com/npm/nopt/commit/5271229ee7c810217dd51616c086f5d9ab224581)
 Use JavaScript code block for syntax highlighting.
 ([@adius](https://github.com/adius))
* [`c0d156f`](https://github.com/npm/nopt/commit/c0d156f229f9994c5dfcec4a8886eceff7a07682)
 The code sample in the README had `many2: [ oneThing ]`, and now it has
 `many2: [ two, things ]`. ([@silkentrance](https://github.com/silkentrance))
-*-makefile-*-
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Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

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

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

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



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

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
```

```
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

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implementation of MCS (Mellor-Crummey/Scott) locks.
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Author : Angus Johnson
Version : 6.1.3a
Date : 22 January 2014
Website : http://www.angusj.com
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The
code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005 , Long Beach, California, USA
http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf

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C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

https://github.com/deanm/css-color-parser-js
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Id
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src/base/md5.c
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#
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
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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
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NPM License Checker
==========

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimeters instead of commas. Some license names contain
commas and it messed with the parsing*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```shell
npm install -g license-checker

mkdir foo
cd foo
npm install yui-lint
license-checker
```

You should see something like this:

```
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
```

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licenses: MIT
lru-cache@2.0.4
repository: https://github.com/isaacs/node-lru-cache
licenses: MIT
minimatch@0.0.5
repository: https://github.com/isaacs/minimatch
licenses: MIT
minimatch@0.2.9
repository: https://github.com/isaacs/minimatch
licenses: MIT
sigmund@1.0.0
repository: https://github.com/isaacs/sigmund
licenses: UNKNOWN
yui-lint@0.1.1
licenses: BSD
repository: http://github.com/yui/yui-lint
```

An asterisk next to a license name means that it was deduced from
an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
debug@2.0.0
repository: https://github.com/visionmedia/debug
licenses: MIT*
```

Options
---

* `--production` only show production dependencies.
* `--development` only show development dependencies.
* `--start [path of the initial json to look for]`
* `--unknown` report guessed licenses as unknown licenses.
* `--onlyunknown` only list
packages with unknown or guessed licenses.
* `--json` output in json format.
* `--csv` output in csv format.
* `--csvComponentPrefix` prefix column for component in csv format.
* `--out [filepath]` write the data to a specific file.
* `--customPath` to add a custom Format file in JSON
* `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
* `--relativeLicensePath` output the location of the license files as relative paths
* `--summary` output a summary of the license usage',
* `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
* `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-seperated list
```

* `--packages [list]` restrict output to the packages (package@version) in the semicolon-seperated list
* `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-seperated list
* `--excludePrivatePackages`
 restrict output to not include any package marked as private
* `--direct look for direct dependencies only`

Exclusions

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).
You can use valid SPDX expressions like `MIT OR X11`.
You can use non-valid SPDX identifiers, like `Public Domain`, since `npm` does
support some license strings that are not SPDX identifiers.

Examples

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```

Custom format

The `--customPath` option can be used with CSV to specify the columns.
 Note that
the first column, `module_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:
- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile

- licenseText
- licenseModified

You can also give default values for each item.
See an example in customFormatExample.json.

Requiring

```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```

Debugging
----

license-checker uses [debug](https://www.npmjs.com/package/debug) for internal logging. Theres two internal markers:

* `license-checker:error` for errors
* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```shell
$
 export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
# ...
```

How Licenses are Found

We walk through the `node_modules` directory with the [`read-installed`](https://www.npmjs.org/package/read-installed) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`'s, We try to identify the license with the [`spdx`](https://www.npmjs.com/package/spdx) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

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Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

```
npm install spdx-license-ids
```

[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]
```

```
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
 true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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"Devices" shall mean hardware devices or products that 1) are manufactured and/or distributed by the Licensee or its Affiliates or Contractors, and (2)(i) incorporate or integrate the Redistributables or parts thereof; or (ii) where the main user interface or substantial functionality of such unit , when used by a Customer, is provided by Application(s) or otherwise depends on the Licensed Software, regardless of whether the Redistributables are distributed together with the hardware or not. Devices covered with this Agreement shall be specified in Appendix 2 or in a quote.

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"Distribution License Packs" shall mean set of prepaid Distribution Licenses for distribution of Redistributables, as defined in The Qt Company's standard price list, quote, Purchase Order confirmation or in an appendix hereto, as the case may be.

"Intellectual Property Rights" shall mean patents (including utility models), design patents, and designs (whether or not capable of registration), chip topography rights and other like protection, copyrights, trademarks, service marks, trade names, logos or other words or symbols and any other form of statutory protection of any kind and applications for any of the foregoing as

well as any trade secrets.

"License Certificate" shall mean a certificate generated by The Qt Company for each Designated User respectively upon them downloading the Licensed Software, which will be available under respective Designated User's Qt Account at account.qt.io. License Certificates will specify the Designated User, the Development Platforms, Deployment Platforms and the License Term. Such terms are considered part of the licenses granted hereunder and shall be updated from time to time to reflect any agreed changes to the foregoing terms relating to Designated User's rights to the Licensed Software.

"License Fee" shall mean the fee charged to the Licensee for rights granted under the terms of this Agreement.

"License Term" shall mean the agreed validity period of the Development License of the respective
Designated User, during which time the Designated User is entitled to use the Licensed Software, as set forth in the respective License Certificate.

"Licensed Software" shall mean either

(i) Qt for Application Development or
(ii) Qt for Device Creation, and/or
(iii) Qt 3D Studio, and/or
(iv) Qt Design Studio, and/or
(v) Qt for MCUs, and/or
(vi) selected Add-on Products, if any,

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"Licensee" shall mean the individual or legal entity that is party to this Agreement, as identified on the signature page hereof.

"Licensee's Records" shall mean books and records that are likely to contain information bearing on Licensee's compliance with this Agreement, Licensee's use of Open Source Qt and/or the payments due to The Qt Company under this

Agreement, including, but not limited to user information, assembly logs, sales records and distribution records.

"Modified Software" shall have the meaning as set forth in Section 2.3.

"Online Services" shall mean any services or access to systems made available by The Qt Company to the Licensee over the Internet relating to the Licensed Software
or for the purpose of use by the Licensee of the Licensed Software or Support. Use of any such Online Services is discretionary for the Licensee and some of them may be subject to additional fees.

"Open Source Qt" shall mean the non-commercial Qt computer software products, licensed under the terms of the GNU Lesser General Public License, version 2.1 or later ("LGPL") or the GNU General Public License, version 2.0 or later ("GPL"). For clarity, Open Source Qt shall not be provided nor governed under this Agreement.

"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Permitted Combination" shall have the meaning as set forth in Section 3.4(viii).

"Pre-Release Code" shall have the meaning as set forth in Section 4.

"Prohibited Combination" shall mean any means to (i) use, combine, incorporate, link or integrate Licensed Software with any software created with or incorporating Open Source Qt, (ii) use Licensed Software for creation of any software created with or
incorporating Open Source Qt, or (iii) incorporate or integrate Applications into a hardware device or product other than a Device.

"Qt 3D Studio" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt Design Studio" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for Application Development" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for Device Creation" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for MCUs" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1 that may be distributed
pursuant to the terms of this Agreement
in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"Renewal Term" shall mean an extension of previous License Term as agreed between the Parties.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms available at https://www.qt.io/terms-conditions/ and as further defined in Section 8 hereunder.

"Taxes" shall have the meaning set forth in Section 10.5.

"Term" shall have the meaning set forth in Section 12.

"The Qt Company" shall mean:

(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or

having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

"Third-Party Software" shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version
number. The Qt Company shall make Updates
available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing

enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP

2.1. Ownership of The Qt Company

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2.2. Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

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Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

Licensee may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and

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3. LICENSES GRANTED

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Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive,
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Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to end-user Customers.

Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing
that it does not wish
to continue the License Term, such notification to be provided to the other Party no less than ninety (90) days before expiry of the respective License Term. Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective quote from The Qt Company and/or the respective License Fee paid by due
date specified in The Qt Company's respective invoice, The Qt
Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than ninety (90) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

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Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide,
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Subject to the terms of this Agreement, The Qt Company grants to Licensee a
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3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

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(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

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(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

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EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other

taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or

result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of
this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent,
files for
any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act
equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms

of this Agreement and Licensee
is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

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to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In
the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one

arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

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14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient
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courier during normal business hours on a business day to the addresses

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14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules/Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X,R	X,R			
Qt GUI	X,R	X,R			
Qt Multimedia	X,R	X,R			
Qt Multimedia Widgets	X,R	X,R			
Qt Network	X,R	X,R			
Qt QML	X,R	X,R			
Qt Quick	X,R	X,R			
Qt Quick Controls 2	X,R	X,R			
Qt Quick Dialogs	X,R	X,R			
Qt Quick Layouts	X,R	X,R			
Qt Quick Test	X,R	X,R			
Qt SQL	X,R	X,R			
Qt Test	X,R	X,R			

Qt Widgets	X,R	X,R		
Active Qt	X,R	X,R		
Qt 3D	X,R	X,R		
Qt Android Extras	X,R	X,R		
Qt Bluetooth	X,R	X,R		
Qt Canvas 3D	X,R	X,R		
Qt Concurrent	X,R	X,R		
Qt D-Bus	X,R	X,R		
Qt Gamepad	X,R	X,R		
Qt Graphical Effects	X,R	X,R		
Qt Help	X,R	X,R		
Qt Image Formats	X,R	X,R		
Qt Location	X,R	X,R		
Qt Mac Extras	X,R	X,R		
Qt Network Authorization	X,R	X,R		
Qt NFC	X,R	X,R		
Qt Platform Headers	X,R	X,R		
Qt Positioning	X,R	X,R		
Qt Print Support	X,R	X,R		
Qt Purchasing	X,R	X,R		
Qt for Python	X,R	X,R		
Qt Quick Controls	X,R	X,R		
Qt Quick Extras	X,R	X,R		

Qt Quick Widgets	X,R	X,R		
Qt SCXML	X,R	X,R		
Qt Sensors	X,R	X,R		
Qt Serial Bus	X,R	X,R		
Qt Serial Port	X,R	X,R		
Qt Speech	X,R	X,R		
Qt SVG	X,R	X,R		
Qt UI Tools	X,R	X,R		
Qt WebChannel	X,R	X,R		
Qt WebEngine	X,R	X,R		
Qt WebSockets	X,R	X,R		
Qt WebView	X,R	X,R		
Qt Windows Extras	X,R	X,R		
Qt X11 Extras	X,R	X,R		
Qt XML	X,R	X,R		
Qt XML Patterns	X,R	X,R		
Qt Wayland Compositor	X,R	X,R		
Qt Charts	X,R	X,R		
Qt Data Visualization	X,R	X,R		
Qt Virtual Keyboard	X,R	X,R		
Boot 2 Qt stack		X,R		
Qt OTA		X,R		

Device Utilities		X,R		
Qt Debugging Bridge (QDB) Daemon		X,R		
Qt Quick Ultralite Controls			X,R	
Qt Quick Ultralite			X,R	
Qt Creator	X	X	X	
Qt Designer (Qt Widget Designer)	X	X		
Qt Quick Designer (Qt Creator plugin)	X	X	X	
Qt Linguist	X	X	X	
Qt Assistant	X	X	X	
lupdate	X	X	X	
lrelease	X	X	X	
qmake	X	X		
uic	X	X		
rcc	X	X		
qlalr	X	X		
qdoc	X	X		
qmlscene	X	X		
qmlviewer	X	X		
Target toolchains		X	X	
Qt Debugging Bridge (QDB) Host Tools		X		
qtconfig-gui		X		
Qt Emulator		X		

qmlinterfacegenerator			X	
qmltocpp			X	
qulfontcompiler			X	
Qt53DStudioRuntime2				X,R
Qt 3D Studio				X
Qt Design Studio					X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE
In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On
Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools of Licensed Software	Add-On Product(s): Qt for Automation Suite	Qt Automotive Suite	Qt Safe Renderer	Qt Application Manager	Qt Gammaray	Qt Deployment Platform Package
Qt MQTT	X,R					
Qt KNX	X,R					
Qt OPC UA	X,R					
Qt CoAP	X,R					
Qt Safe Renderer		X,R	X,R			

Qt | | | | | |
Application | | X,R | | X,R | |
Manager | | | | | |

Qt IVI | | X,R | |
| |

Reference UI| | X,R | | | |

Qt GENIVI | | X,R | | | |
Extras | | | | | |

QML Live | | X | | | |

Qt Creator | | X | | | |
Deployment | | | | | |

Qt Creator | | | | | |
Plugin for | | | | | |
Qt | |
X | | X | |
Application | | | | | |
Manager | | | | | |

Qt | | | | | |
Automotive | | | | | |
Suite | | X | | | |
Deployment | | | | | |
Server | | | | | |

Qt Design | | X | | | |
Studio | | | | | |

Qt 3D Studio| | X | | | |

GammaRay
| | X | | | X |

Platform | | | | | |
adaptations | | | | | |
for | | | | | X
specified | | | | | |
Deployment | | | | | |
Platforms | | | | | |

Qt for | | | | | |
Device | | X | | | |
Creation | | | | | |

All
the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term.For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section
3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

(a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement,
unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that

(b) in the event the Licensee still qualifies as a Start-up Company,

the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

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Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both

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Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

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The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
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^ expected errors | v input

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/*---
esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/

void 0;

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
   validForOldPackages: false,
   validForNewPackages: false,
   warnings: [
     'license should be ' +
     'a valid SPDX license expression (without "LicenseRef"), ' +
     '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
     'license is similar to the valid expression "Apache-2.0"'
   ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
```

```
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

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Version 3, 29 June 2007

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```
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#!/usr/bin/env node
var nopt = require("../lib/nopt")
 , path = require("path")
 , types = { num: Number
           , bool: Boolean
           , help: Boolean
           , list: Array
           , "num-list": [Number, Array]
           , "str-list": [String, Array]
           , "bool-list": [Boolean, Array]
           , str: String
           , clear: Boolean
           , config: Boolean
           , length: Number
           , file: path
           }
 , shorthands = { s: [ "--str", "astring" ]
                , b: [ "--bool" ]
                , nb: [ "--no-bool" ]
                , tft: [ "--bool-list", "--no-bool-list", "--bool-list", "true" ]
                , "?": ["--help"]
                , h: ["--help"]
                , H: ["--help"]
                , n: [ "--num", "125" ]
                , c: ["--config"]
                , l: ["--length"]
                , f: ["--file"]
                }
 , parsed = nopt( types
                , shorthands

       , process.argv
                , 2 )

console.log("parsed", parsed)

if (parsed.help) {
 console.log("")
 console.log("nopt cli tester")
 console.log("")
 console.log("types")
 console.log(Object.keys(types).map(function M (t) {
   var type = types[t]
   if (Array.isArray(type)) {
     return [t, type.map(function (type) { return type.name })]
   }
```

```
  return [t, type && type.name]
 }).reduce(function (s, i) {
  s[i[0]] = i[1]
  return s
 }, {}))
 console.log("")
 console.log("shorthands")
 console.log(shorthands)
}
```

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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library.
To get started quickly, read the code and explanations in that file and run it.
If you want more detail or a feature not shown in `sample.cc', consult
the
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library

The library consists of a folder full of C++ header files (`.hh') and source

files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked
with the library source files; otherwise, you will get
errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements

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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 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.

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

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

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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.

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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(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 distribution of object code is made by offering access to copy
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If you want to write an option parser, and have it be good, there are
two ways to do it. The Right Way, and the Wrong Way.

The Wrong Way is to sit down and write an option parser. We've all done
that.

The Right Way is to write some complex configurable program with so many
options that you hit the limit of your frustration just trying to
manage them all, and defer it with duct-tape solutions until you see
exactly to the core of the problem, and finally snap and write an
awesome option parser.

If you want to write an option parser, don't write an option parser.
Write a package manager, or a source control system, or a service
restarter, or an operating system. You probably won't end up with a
good one of those, but if you don't give up, and you are relentless and
diligent enough in your procrastination, you may just end up with a very
nice option parser.

USAGE

```javascript
// my-program.js
var nopt = require("nopt")
 , Stream = require("stream").Stream
 , path = require("path")
  , knownOpts = { "foo" : [String, null]
                , "bar" : [Stream, Number]
```

```
              , "baz" : path
              , "bloo" : [ "big", "medium", "small" ]
              , "flag" : Boolean
              , "pick" : Boolean
              , "many1" : [String, Array]
              , "many2" : [path, Array]
              }
 , shortHands = { "foofoo" : ["--foo", "Mr. Foo"]
               , "b7" : ["--bar", "7"]
               , "m" : ["--bloo", "medium"]
               , "p" : ["--pick"]
               , "f" : ["--flag"]
               }
           // everything is optional.
           // knownOpts and shorthands default to {}
           // arg list defaults to process.argv
           // slice defaults to 2
 , parsed = nopt(knownOpts, shortHands, process.argv, 2)
console.log(parsed)
```

This would give you support for any of the following:

```console
$ node my-program.js --foo "blerp" --no-flag
{ "foo" : "blerp", "flag" : false }

$ node my-program.js
 ---bar 7 --foo "Mr. Hand" --flag
{ bar: 7, foo: "Mr. Hand", flag: true }

$ node my-program.js --foo "blerp" -f -----p
{ foo: "blerp", flag: true, pick: true }

$ node my-program.js -fp --foofoo
{ foo: "Mr. Foo", flag: true, pick: true }

$ node my-program.js --foofoo -- -fp  # -- stops the flag parsing.
{ foo: "Mr. Foo", argv: { remain: ["-fp"] } }

$ node my-program.js --blatzk -fp # unknown opts are ok.
{ blatzk: true, flag: true, pick: true }

$ node my-program.js --blatzk=1000 -fp # but you need to use = if they have a value
{ blatzk: 1000, flag: true, pick: true }

$ node my-program.js --no-blatzk -fp # unless they start with "no-"
{ blatzk: false, flag: true, pick: true }
```

```
$ node my-program.js --baz b/a/z # known paths are resolved.
{ baz: "/Users/isaacs/b/a/z" }

# if Array is one of the types, then it can take many
# values, and will always be an array.  The other types provided
# specify what types are allowed in the list.

$ node my-program.js --many1 5 --many1 null
 --many1 foo
{ many1: ["5", "null", "foo"] }

$ node my-program.js --many2 foo --many2 bar
{ many2: ["/path/to/foo", "path/to/bar"] }
```

Read the tests at the bottom of `lib/nopt.js` for more examples of
what this puppy can do.

Types

The following types are supported, and defined on `nopt.typeDefs`

* String: A normal string. No parsing is done.
* path: A file system path. Gets resolved against cwd if not absolute.
* url: A url. If it doesn't parse, it isn't accepted.
* Number: Must be numeric.
* Date: Must parse as a date. If it does, and `Date` is one of the options,
 then it will return a Date object, not a string.
* Boolean: Must be either `true` or `false`. If an option is a boolean,
 then it does not need a value, and its presence will imply `true` as
 the value. To negate boolean flags, do `--no-whatever` or `--whatever
 false`
* NaN: Means that the option is strictly not allowed. Any value will
 fail.
* Stream: An object matching the "Stream" class in node.
  Valuable
 for use when validating programmatically. (npm uses this to let you
 supply any WriteStream on the `outfd` and `logfd` config options.)
* Array: If `Array` is specified as one of the types, then the value
 will be parsed as a list of options. This means that multiple values
 can be specified, and that the value will always be an array.

If a type is an array of values not on this list, then those are
considered valid values. For instance, in the example above, the
`--bloo` option can only be one of `"big"`, `"medium"`, or `"small"`,
and any other value will be rejected.

When parsing unknown fields, `"true"`, `"false"`, and `"null"` will be
interpreted as their JavaScript equivalents.

You can also mix types and values, or multiple types, in a list. For
instance `{ blah: [Number, null] }` would allow a value to be set to
either a Number or null. When types are ordered, this implies a
preference, and the first type that can be used to properly interpret
the value will
 be used.

To define a new type, add it to `nopt.typeDefs`. Each item in that
hash is an object with a `type` member and a `validate` method. The
`type` member is an object that matches what goes in the type list. The
`validate` method is a function that gets called with `validate(data,
key, val)`.  Validate methods should assign `data[key]` to the valid
value of `val` if it can be handled properly, or return boolean
`false` if it cannot.

You can also call `nopt.clean(data, types, typeDefs)` to clean up a
config object and remove its invalid properties.

Error Handling

By default, nopt outputs a warning to standard error when invalid values for
known options are found. You can change this behavior by assigning a method
to `nopt.invalidHandler`. This method will be called with
the offending `nopt.invalidHandler(key, val, types)`.

If no `nopt.invalidHandler` is assigned, then it will console.error
its whining. If it is assigned to boolean `false` then the warning is
suppressed.

##
 Abbreviations

Yes, they are supported. If you define options like this:

```javascript
{ "foolhardyelephants" : Boolean
, "pileofmonkeys" : Boolean }
```

Then this will work:

```bash
node program.js --foolhar --pil
node program.js --no-f --pileofmon
# etc.
```

```

## Shorthands

Shorthands are a hash of shorter option names to a snippet of args that
they expand to.

If multiple one-character shorthands are all combined, and the
combination does not unambiguously match any other option or shorthand,
then they will be broken up into their constituent parts.  For example:

```json
{ "s" : ["--loglevel", "silent"]
, "g" : "--global"
, "f" : "--force"
, "p" : "--parseable"
, "l" : "--long"
}
```

```bash
npm ls -sgflp
# just like doing this:
npm ls --loglevel silent --global --force --long --parseable
```

The Rest of the args

The config object returned by nopt is given a special member called
`argv`, which is an object with the following fields:

* `remain`: The remaining args
 after all the parsing has occurred.
* `original`: The args as they originally appeared.
* `cooked`: The args after flags and shorthands are expanded.

Slicing

Node programs are called with more or less the exact argv as it appears
in C land, after the v8 and node-specific options have been plucked off.
As such, `argv[0]` is always `node` and `argv[1]` is always the
JavaScript program being run.

That's usually not very useful to you. So they're sliced off by
default. If you want them, then you can pass in `0` as the last
argument, or any other number that you'd like to slice off the start of
the list.
```

// sigslot.h: Signal/Slot classes
//
// Written by Sarah Thompson (sarah@telergy.com) 2002.
//
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C++ port by Mapbox, Konstantin Kfer <mail@kkaefer.com>, 2014-2017.

https://github.com/deanm/css-color-parser-js
https://github.com/kkaefer/css-color-parser-cpp

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Change Log

v25.0.1 (2019/01/10 19:29 +00:00)
- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

v25.0.0 (2019/01/10 15:09 +00:00)
- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

v24.1.0 (2018/12/14 20:54 +00:00)
- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together (@theboolean)
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

v24.0.1 (2018/10/11 16:40 +00:00)
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

v24.0.0 (2018/10/09 21:12 +00:00)
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b)

24.0.0 (@davglass)
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks
(@jonny-improbable)
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

v23.0.0 (2018/10/09 14:37 +00:00)
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

v22.0.0 (2018/10/08 19:00 +00:00)
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

v21.0.0 (2018/10/06 13:24 +00:00)
- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7) 21.0.0 (@davglass)
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398) [Fixes #174] - Moved private and unknown
detection above filtering (@davglass)
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb) Add an excludePackages option (@fzaninotto)
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602) updated readme (@davglass)
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d) changelog (@davglass)

v20.2.0 (2018/07/30 13:49 +00:00)
- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f)

20.2.0 (@davglass)
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from codepunkt/restrict_packages (@codepunkt)
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d) refactor: restore previous code style (@codepunkt)
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6) test: add test for --packages flag (@codepunkt)
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45) feat: allow restricting output to specified packages (@codepunkt)
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77) changes and contrib (@davglass)

v20.1.0 (2018/06/07 14:33 +00:00)
- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320) 20.1.0 (@davglass)
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-exclude-not-adding-custom-licenses (@santiagocanti)
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22) Fix exclude not including custom licenses (@santiagocanti)

v20.0.0 (2018/05/17 14:14 +00:00)
- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2) 20.0.0 (@davglass)
- [c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4) changes (@davglass)
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460) contributors (@davglass)
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from zodiac403/z4/copyright (@zodiac403)
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2) Add unit test for Copyright statement. (@zodiac403)
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade) fixing test coverage with switch to nyc from istanbul (@davglass)

v19.0.0 (2018/04/30 14:51 +00:00)
- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

v18.1.0 (2018/04/30 14:16 +00:00)
- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2)

contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line
stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

v18.0.0 (2018/03/20 12:30 +00:00)
- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)
- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa823342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)

- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test
 it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

v17.0.0 (2018/03/19 13:26 +00:00)
- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144)
 Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

v16.0.0 (2018/01/18 15:02 +00:00)
- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131
 from mischah/patch-1 (@mischah)
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589) Fix typo in Readme (@mischah)
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04) updated license text (@davglass)

v15.0.0 (2017/10/19 14:24 +00:00)
- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599) 15.0.0 (@davglass)
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866) changelog (@davglass)
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from neverendingqs/app/stricterguesses (@neverendingqs)
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency.

(#126) (@neverendingqs)
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932) app - strengthening license
guessing; resolves #123. (@neverendingqs)
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73) changes (@davglass)

v14.0.0 (2017/08/28 13:22 +00:00)
- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec) 14.0.0 (@davglass)
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

v13.1.0 (2017/08/25 15:00 +00:00)
- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5) 13.1.0 (@davglass)
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f) changes (@davglass)
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3) added contrib (@davglass)
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with counts of the used licenses (#121)
(@tobilg)
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119) (@tobiasbueschel)
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118) (@peteruithoven)
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59) added license parsing info to README (@davglass)
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d) changes (@davglass)

v13.0.3 (2017/08/04 17:15 +00:00)
- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5) 13.0.3 (@davglass)
- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25) [fixes #117] fixed minor URL parsing (@davglass)
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482) changes (@davglass)

v13.0.2 (2017/07/18 16:24 +00:00)
-
[2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59) 13.0.2 (@davglass)
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad) [fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

v13.0.1 (2017/07/17 12:48 +00:00)
- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44)

13.0.1 (@davglass)
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994) contrib & changes (@davglass)
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113) (@ibeucaly)
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90) changes (@davglass)

v13.0.0 (2017/07/14 12:49 +00:00)
- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4) 13.0.0 (@davglass)
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f) cleaned up some tests (@davglass)
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file or url (#110) (@dancrumb)
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and LGPL (@dancrumb)
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109) (@dancrumb)
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them as UNLICENSED (#108) (@dancrumb)

v12.1.0 (2017/07/12 16:48 +00:00)
- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8) 12.1.0 (@davglass)
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3) updated contrib and changes (@davglass)
- [#107](https://github.com/davglass/license-checker/pull/107) Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87) FEATURE: Add support for Public Domain licenses (@dancrumb)

v12.0.0 (2017/07/05 13:33 +00:00)
- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621) 12.0.0 (@davglass)
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400) changes & contrib (@davglass)
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

v11.0.0 (2017/05/30 13:33 +00:00)
- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-

licenses (@xswordsx)
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4) Check for SPDX-compatible licenses (@xswordsx)

v10.1.0 (2017/05/25 16:16 +00:00)
- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e) contrib & changes (@davglass)
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85) changelog (@davglass)

v10.0.0 (2017/05/17 13:51 +00:00)
- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

v9.0.3 (2017/04/10 13:42 +00:00)
- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff) test: add test for csvComponentPrefix (@abtris)
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351) feat: add support for csvComponentPrefix (@abtris)
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2) added contrib (@davglass)

v9.0.2 (2017/04/05 14:55 +00:00)
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895) 9.0.2 (@davglass)
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee) contrib & changelog (@davglass)

v9.0.1 (2017/04/05 13:09 +00:00)
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca) 9.0.1 (@davglass)
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9) added test for licenseText (@davglass)
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4) test: fix test, remove check from non custom format (@abtris)
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a) feat: add licenseText
 only for customFormat
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3) updated contribs and changelog (@davglass)

v9.0.0 (2017/04/04 12:26 +00:00)
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd) 9.0.0 (@davglass)
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809) added licenseFile assertion to tests (@davglass)
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dccae89172943a0f) fix: replace problematics chars for easy import to Excel (@abtris)
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63) feat: add licenseText (@abtris)
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2) changes and contrib (@davglass)

v8.0.4 (2017/02/15 16:21 +00:00)
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295) 8.0.4 (@davglass)
- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

v8.0.3 (2016/11/10 17:04 +00:00)
- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85)

8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

v8.0.2 (2016/11/09 21:57 +00:00)
- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

v8.0.1 (2016/11/09 21:51 +00:00)
- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added
contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

v8.0.0 (2016/09/09 13:23 +00:00)
- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbd6f](https://github.com/davglass/license-checker/commit/dfcbd6f4966adc74e065f71e45cbd08ba8fe62ab) changelog
(@davglass)
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5) 7.1.1 (@davglass)
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424) [fixes #77] fixed readme file name parsing, made it more strict (@davglass)

v7.1.1 (2016/09/07 19:16 +00:00)
- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa) changelog (@davglass)

v7.1.0 (2016/09/07 15:12 +00:00)
- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa)

7.1.0 (@davglass)
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6) Fixed order of operations for parsing (@davglass)
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299) Updated changelog (@davglass)

v7.0.0 (2016/09/06 14:50 +00:00)
- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea) 7.0.0 (@davglass)
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f) added contrib (@davglass)
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1) Fixes #76 - If readme data not found, look for it on disk (@davglass)
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32) Fix incorrect example in README (@revov)
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a) Added changelog (@davglass)
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879) Added contributors (@davglass)

v6.0.0 (2016/08/26 19:46 +00:00)
- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741) 6.0.0 (@davglass)
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81) updating tests (@davglass)
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f) Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7) dropping node 0.10 and adding node 6.0 to travis (@davglass)
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc) updating tests (@davglass)
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046) Cleaned up some code (@davglass)
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339) Merge branch 'master' of git://github.com/amittkSharma/license-checker into amittkSharma-master (@davglass)
- [28e4462](https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30) Added tests and cleaned up linting (@davglass)
- [153857a](https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa) Publisher Information incorporated.
- [1265cb3](https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846) Added ability to output individual license files (@aweber1)
- [49e11d0](https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888) fix tests (@bengl)
- [26ffc6f](https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa) use nodeback/errback (@bengl)

v5.1.2 (2016/05/04 18:32 +00:00)
- [7101c77](https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311) 5.1.2 (@davglass)
- [#67](https://github.com/davglass/license-checker/pull/67) Merge pull request #67 from graingert/patch-2 (@graingert)
- [a6ee290](https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2) Upgrade read-installed (@graingert)
- [42e29c6](https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93) migrating tests from vows to mocha (@davglass)

v5.1.1 (2016/04/14 13:20 +00:00)
- [6ae0334](https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4) 5.1.1 (@davglass)
- [0720a46](https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6) Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

v5.1.0 (2016/03/09 15:50 +00:00)
- [86772d2](https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f) 5.1.0 (@davglass)
- [#61](https://github.com/davglass/license-checker/pull/61) Merge pull request #61 from sgtdck/master (@sgtdck)
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) Removed obsolete d[key].name assignment from tests (@sgtdck)
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtdck)
- [629da20](https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda) Added latest contributors (@davglass)

v5.0.1 (2016/02/08 15:57 +00:00)
- [33731fc](https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625) 5.0.1 (@davglass)
- [fe06eae](https://github.com/davglass/license-checker/commit/fe06eaef8844d050ad0f80d576a221dd605131de) Fixed repplace (@davglass)
- [997914f](https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0) fix git+https URLs (@graingert)
- [#57](https://github.com/davglass/license-checker/pull/57) Merge pull request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3) Explicit the asterisk in license report (@Damien-Larmine)
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25) 5.0.0 (@davglass)
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5) updated contributors (@davglass)

v5.0.0 (2016/01/22 15:31 +00:00)
- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6) supporting --production and --development flags (@davglass)

- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)
- [#54](https://github.com/davglass/license-checker/pull/54) Merge pull request #54 from davglass/travis-updates (@davglass)
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc5934069863014425609 6a91e23f22) fixing tests in other node versions (@davglass)
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e) travis config updates (@davglass)
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d) Update documentation for debug use. (@swashcap)
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f) Change `console.error` call to use debug module. (@swashcap)
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4) Add debug to project. (@swashcap)

v4.2.0 (2015/10/20 13:44 +00:00)
- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7) 4.2.0 (@davglass)
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6) Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

v4.1.2 (2015/09/29 13:46 +00:00)
- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecdd9bb7389ad18d4) 4.1.2 (@davglass)
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd) Fix json, csv and markdown output for license-checker (@mattiasa)

v4.1.1 (2015/09/12 14:39 +00:00)
- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393) 4.1.1 (@davglass)
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)
- [a842eca](https://github.com/davglass/license-checker/commit/a842ecae4f008c07df3039dcaacd4641d7273625) add missing } (@tmpvar)
- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

v4.1.0 (2015/09/09 14:52 +00:00)
- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft_custom_format (@ptusch)

- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft_error_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1) More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef) Merge branch 'master' into ft_error_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533) Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44) Merge branch 'master' into ft_custom_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374) Add tests for customFormat (@ptusch)

v4.0.0 (2015/09/04 13:40 +00:00)
- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beb17e) 4.0.0 (@davglass)
- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f) tests: added 100% coverage for license file (@davglass)
- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft_onlyunknown (@ptusch)
- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68) Add tests for the error generation (@ptusch)
- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692)

Add error handling (@ptusch)
- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682) Add additional check to negate the test (@ptusch)
- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a) Add test for the first function call. (@ptusch)
- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856) Remove trivial UNKNOWN check (@ptusch)
- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2) Merge branch 'master' into ft_custom_format (@ptusch)
- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfcb40dc6980fbf13461408da822b1f) Merge branch 'master' into ft_onlyunknown (@ptusch)
- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)
-
[#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)
- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)
- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)
- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft_path_to_unknown_dependency (@ptusch)
- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)
- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)
- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft_custom_format (@ptusch)
- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)
- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)
- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)
- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)
- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148) Add functionality to add a custom format (@ptusch)

v3.1.0 (2015/06/29 14:25 +00:00)
- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0) 3.1.0 (@davglass)
- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08) reformatted code, fixed lint issues and added tests (@davglass)
- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91) Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)
- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0) fixing tests (@davglass)

- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493) Added Markdown Option (@ptusch)
- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169) Remove color tags (@ptusch)

v3.0.3 (2015/06/03 13:35 +00:00)
- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8) 3.0.3 (@davglass)
- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56) spdx license (@davglass)

v3.0.2 (2015/05/12 20:29 +00:00)
- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5) 3.0.2 (@davglass)
- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7) defensive code, fixes #34 (@davglass)

v3.0.1 (2015/05/04 12:28 +00:00)
- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fbb25afaee7faaec6636) 3.0.1 (@davglass)
- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e) Checking for valid path first (@davglass)

v3.0.0 (2015/04/24 14:38 +00:00)
- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096) 3.0.0 (@davglass)
- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5) always try to find and log the
 license file (@davglass)

v2.0.2 (2015/01/26 18:18 +00:00)
- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733) 2.0.2 (@davglass)
- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065) fixes #30 (@davglass)

v2.0.1 (2015/01/12 18:34 +00:00)
- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737) fixes #29 (@davglass)

v2.0.0 (2014/12/04 16:34 +00:00)
- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e)

syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eaee1f165fa010da229d2a9fb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfddbf0994867577d4c5e3dc0ee2a) Don't print info messages to stdout. (@timoxley)

v1.0.1 (2014/11/27 15:23 +00:00)
- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
-
[3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1) sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

v1.0.0 (2014/11/21 13:56 +00:00)
- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

v0.1.2 (2014/11/20 15:48 +00:00)
- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291) fixed lint issue (@davglass)

v0.1.1 (2014/11/20 15:47 +00:00)
- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235) 0.1.1 (@davglass)
- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8) fixed merge issues (@davglass)

v0.1.0 (2014/11/20 15:41 +00:00)
- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11) 0.1.0 (@davglass)
- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608)

Updated to newer read-installed (@davglass)

###
v0.0.10 (2014/08/12 12:48 +00:00)
- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b)
0.0.10 (@davglass)
- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb)
Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.
- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9)
colorize (@couchand)

v0.0.9 (2014/07/29 01:48 +00:00)
- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec)
0.0.9 (@davglass)
- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b)
Fixes #12 - Using some nicer regexes (@davglass)
- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750)
case insensative
check (@davglass)
- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48)
Allow for LICENCE (@gdw2)

v0.0.8 (2014/07/07 20:10 +00:00)
- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33)
0.0.8 (@davglass)
- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f)
added tests and refactored the code a little (@davglass)
- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174)
Added --csv option to readme file
- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5)
Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.
- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5)
Modified changes based on lshint output during Travis build
- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b)
Added csv output option similar to the existing JSON output option. Requires an output filename.

v0.0.7 (2014/02/26 04:52 +00:00)
- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf)
0.0.7 (@davglass)
- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb)
Added not check and a proper test (@davglass)
- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2)
Undefined handling (@garrows)
- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d)
travis Stuff (@davglass)
- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b)
0.0.6 (@davglass)

- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcbfefb5907) Added some better tests (@davglass)
- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f) Looking for WTFPL as well as the string (@davglass)
- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd) Flattened array of one (@davglass)
- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca) Fixed extra var (@davglass)
- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d) Removing unecessary log statement (@paulmand3l)
- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3) Adding license checks in the LICENSE file (and variations) (@paulmand3l)
- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master (@jamesbloomer)
- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92) Fixed missing "install" in npm -g (@jamesbloomer)
- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb) Updated Version (@davglass)
- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b) Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)
- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e) Added Travis test file (@davglass)
- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e) Version Bump (@davglass)
- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)
- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017) Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)
- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13) Version Bump (@davglass)
- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)
- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37) fixed special case when an empty array is passed to license/licenses (@badunk)
- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef) fixed bug with multiple licenses objects not showing (@badunk)
- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a) cleaned up the code (@badunk)
- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19) added check for circular dependencies (@badunk)
- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac) Version Bump (@davglass)
- [#1](https://github.com/davglass/license-checker/pull/1) Merge pull request #1 from mwilliamson/master (@mwilliamson)
- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762) Don't ignore license field if it's a string (@mwilliamson)
- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53) Initial Commit (@davglass)

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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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1.311 kmod 28

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```
libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : idep_nir_headers,
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
```

```
  'fd' + major + '_layout',
  executable(
    'fd' + major + '_layout',
    [
      'fd_layout_test.c',
      'fd' + major + '_layout_test.c',
      freedreno_xml_header_files,
    ],
    link_with: libfreedreno_layout,
    dependencies : idep_mesautil,
    include_directories: [
      inc_include,
      inc_src,
      inc_mapi,
      inc_mesa,
      inc_gallium,
      inc_gallium_aux,
      inc_freedreno],
  ),
  suite : ['freedreno'],
)
endforeach
```

1.313 sysv-init 2.88

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The of the start-stop-daemon

* A rewrite
of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.314 shared-mime-info 1.8

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Please feel free to re-implement this benchmark in any language you
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Martin Richards
23 February 2007
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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
  <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
  <IlrtTestKind>BuildOnly</IlrtTestKind>
  <!-- Test unsupported outside of windows -->
  <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
  <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
  <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
  <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <ProjectReference
 Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

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

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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That's all there is to it!
MNGPLG
A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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```
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/* *                                                                        * */
/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.      * */
/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                                        * */
/* * This library's function
 is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing          * */
/* * component! It does however offer creation and editing functionality    * */
/* * at the chunk level.                                                    * */
/* * (future modifications may include some more support for creation       * */
/* *  and or editing)                                                       * */
/* *                                                                        * */
/* ************************************************************************** */
```

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The hypothetical commands `show w' and
`show c' should show the appropriate
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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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"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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(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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1.324 libjpeg-turbo 2.0.5

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1.329 pcre 8.44

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1.330 libestr 0.1.9

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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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1.333 libogg 1.3.0-7.el7

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1.334 iproute 4.10.0

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1.343 eudev 3.2.7

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1.344 iptables 1.4.9

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1.345 strace 5.12

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Version 2.1, February 1999

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a
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1.351 libogg 1.3.0

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1.352 mtd-utils 1.4.9

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite
 of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.354 uclibc 0.9.34

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* _setjmp in setjmp.S */

/* setjmp in setjmp.S */
From gsf@research.att.com Wed Mar 1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
 by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
Received: from raptor.research.att.com (raptor.research.att.com
 [135.207.23.32])
 by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB
 for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
 by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
 for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:

X-UID: 44736

you may include it directly
retain the testregex.c header comment
it uses a very free license to maximize distribution
you can copy that .c comment to any test data files you use
using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2
Licensed under the LGPL v2.1, see the file COPYING.LIB in this tarball.

1.355 lrzsz 0.12.20

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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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  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
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  This documentation is outdated. There are several other DVB contributors
  that aren't listed below.

Thanks go to the following people for patches and contributions:

- Michael Hunold <m.hunold@gmx.de>

 - for the initial saa7146 driver and its recent overhaul

- Christian Theiss

 - for his work on the initial Linux DVB driver

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 Ralph Metzler <rjkm@metzlerbros.de>

 - for their continuing work on the DVB driver

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- for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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- Martin Schaller <martin@smurf.franken.de>

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- for various fixes regarding tuning,
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- for his AFC kernel thread

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- for his LIRC infrared handler

- Andreas Oberritter <obi@linuxtv.org>,
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- for the tda1004x frontend driver, and various bugfixes

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- for the nxt2002 frontend driver

- Jean-Francois Thibert
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- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
  single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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1.363 procps 3.2.8

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1.364 shadow 4.2.1

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*
* http://code.google.com/p/curve25519-donna/
*
* Adam Langley <agl@imperialviolet.org>
*
* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
*
* More information about curve25519 can be found here
* http://cr.yp.to/ecdh.html
*
* djb's sample implementation of curve25519 is written in a special assembly
* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

1.366 procps 3.2.7

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1.367 libedit 3.1

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1.368 u-boot 2009.06

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1.370 libusb-compat 4.4.4

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```
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```

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

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1.372 jansson 2.14

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1.373 tdb 1.41.9

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/*
Unix SMB/CIFS implementation.

trivial database library

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1.374 libatomic 1.2.0

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1.375 tdb 1.45.6

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

```
image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
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)
*/
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-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

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

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Theodore Ts'o
23-June-2007

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That's all there is to it!
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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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1.377 dropbear 2020.81

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1.378 tdb 1.46.2

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1.379 libsrtp 2.5.0

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1.380 ncurses 6.3

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---
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include/GL/wglxext.h :

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```
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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
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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

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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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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
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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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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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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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

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

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

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

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

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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
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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.

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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
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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

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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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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

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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.

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.395 glibc 2.35

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We protect your rights with a two-step method: (1) we copyright the

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

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

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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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
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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
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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

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 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
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a storage or distribution medium does not bring the other work under
the scope of this
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these notices.

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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
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of these things:

@enumerate a
@item
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changes were used in the work (which must be distributed under
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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
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and (2) will operate
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Verify that the user has already received a copy of these
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For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

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facilities. This must be distributed under the terms of the
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Give prominent notice with the combined library of the fact
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@subheading END OF TERMS AND CONDITIONS

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

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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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```
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```

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```
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1.400 libxml2 2.9.13

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1.401 safestring 1.3

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* October 2008, Bo Berry
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*/

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/*--

```
* strljustify_s.c
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*----------------------------------------------------------------
*/
```

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strljustify_s.c
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```
/*----------------------------------------------------------------
* mem_primitives_lib.c - Unguarded Memory Copy Routines
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* February 2005, Bo Berry
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*----------------------------------------------------------------
*/
```

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```
/*------------------------------------------------------------------
* strcasestr_s.c
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* November 2008, Bo Berry
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*/
```

Found in path(s):
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```
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* safe_string.h
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* November 2008, Bo Berry
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*------------------------------------------------------------------
*/
```

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_string.h
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```
/*------------------------------------------------------------------
* strstr_s.c
```

*
* November 2008, Bo Berry
*
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*--
*/

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strstr_s.c
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/*--
* safe_mem_constraint.h
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* October 2008, Bo Berry
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_mem_constraint.h
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/*--
* strremovews_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strremovews_s.c
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/*--
* strzero_s.c
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strzero_s.c
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/*--
* mem_primitives_lib.h - Unguarded Memory Copy Routines
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* October 2005, Bo Berry
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*/

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/mem_primitives_lib.h
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/*--
* strcat_s.c
*
* October 2008, Bo Berry
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcat_s.c
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/*--
* strispassword_s.c
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* safe_str_constraint.h
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* October 2008, Bo Berry
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_str_constraint.h
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/*--
* strlastsame_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastsame_s.c
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/*--
* safe_limits.h -- limits include for portability
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* February 2009, Bo Berry
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*/

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_limits.h
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/*--
* strlastchar_s.c
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastchar_s.c
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* strcpyfldin_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcpyfldin_s.c
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```
/*------------------------------------------------------------------
* strncat_s.c
*
* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/
```

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strncat_s.c
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```
/*------------------------------------------------------------------
* strisuppercase_s.c
*
* October 2008, Bo Berry
*
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*------------------------------------------------------------------
*/
```

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strisuppercase_s.c
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```
/*------------------------------------------------------------------
* strislowercase_s.c
*
* Februay 2005, Bo Berry
*
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*/
```

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```
/*------------------------------------------------------------------
* safe_types.h -- types include for portability
*
* March 2007, Bo Berry
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```

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*/

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* strprefix_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strprefix_s.c
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* safe_lib.h -- library include for portability
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* strishex_s.c
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strishex_s.c
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* strncpy_s.c
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*/

Found in path(s):

* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strncpy_s.c
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```
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*/
```

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_str_lib.h
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```
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* strspn_s.c
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*------------------------------------------------------------------
*/
```

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strspn_s.c

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* strpbrk_s.c
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*/

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* strtok_s.c
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1.402 audit 3.0.6

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1.403 libnl3 3.2.22

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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the

generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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Version 3, 29 June 2007

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former contains code derived from the
library, whereas the latter must
be combined with the library in order to run.

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(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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Section 6 states terms for distribution of such executables.

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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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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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@enumerate a
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with the Library, with the complete machine-readable ``work that
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Library will not necessarily be able to recompile the application
to use the modified definitions.)

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@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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asn.au
id.au
// Historic 2LDs (closed to new registration, but sites still exist)
info.au
conf.au
oz.au
// CGDNs - http://www.cgdn.org.au/
act.au
nsw.au
nt.au
qld.au
sa.au
tas.au
vic.au
wa.au
// 3LDs
act.edu.au
catholic.edu.au
// eq.edu.au - Removed at the request of the Queensland Department of Education
nsw.edu.au
nt.edu.au
qld.edu.au
sa.edu.au
tas.edu.au
vic.edu.au
wa.edu.au
// act.gov.au Bug 984824 - Removed at request

of Greg Tankard
// nsw.gov.au Bug 547985 - Removed at request of <Shae.Donelan@services.nsw.gov.au>
// nt.gov.au Bug 940478 - Removed at request of Greg Connors <Greg.Connors@nt.gov.au>
qld.gov.au
sa.gov.au
tas.gov.au
vic.gov.au
wa.gov.au
// 4LDs
// education.tas.edu.au - Removed at the request of the Department of Education Tasmania
schools.nsw.edu.au

// aw : https://en.wikipedia.org/wiki/.aw
aw
com.aw

// ax : https://en.wikipedia.org/wiki/.ax
ax

// az : https://en.wikipedia.org/wiki/.az
az
com.az
net.az
int.az
gov.az
org.az
edu.az
info.az
pp.az
mil.az
name.az
pro.az
biz.az

// ba : http://nic.ba/users_data/files/pravilnik_o_registraciji.pdf
ba
com.ba
edu.ba
gov.ba
mil.ba
net.ba
org.ba

// bb : https://en.wikipedia.org/wiki/.bb
bb
biz.bb
co.bb
com.bb

edu.bb
gov.bb
info.bb
net.bb
org.bb
store.bb
tv.bb

// bd : https://en.wikipedia.org/wiki/.bd
*.bd

// be : https://en.wikipedia.org/wiki/.be
// Confirmed by registry <tech@dns.be> 2008-06-08
be
ac.be

// bf : https://en.wikipedia.org/wiki/.bf
bf
gov.bf

//
bg : https://en.wikipedia.org/wiki/.bg
// https://www.register.bg/user/static/rules/en/index.html
bg
a.bg
b.bg
c.bg
d.bg
e.bg
f.bg
g.bg
h.bg
i.bg
j.bg
k.bg
l.bg
m.bg
n.bg
o.bg
p.bg
q.bg
r.bg
s.bg
t.bg
u.bg
v.bg
w.bg
x.bg

y.bg
z.bg
0.bg
1.bg
2.bg
3.bg
4.bg
5.bg
6.bg
7.bg
8.bg
9.bg

// bh : https://en.wikipedia.org/wiki/.bh
bh
com.bh
edu.bh
net.bh
org.bh
gov.bh

// bi : https://en.wikipedia.org/wiki/.bi
// http://whois.nic.bi/
bi
co.bi
com.bi
edu.bi
or.bi
org.bi

// biz : https://en.wikipedia.org/wiki/.biz
biz

// bj : https://en.wikipedia.org/wiki/.bj
bj
asso.bj
barreau.bj
gouv.bj

// bm : http://www.bermudanic.bm/dnr-text.txt
bm
com.bm
edu.bm
gov.bm
net.bm
org.bm

// bn : http://www.bnnic.bn/faqs

bn
com.bn
edu.bn
gov.bn
net.bn
org.bn

// bo : https://nic.bo/delegacion2015.php#h-1.10
bo
com.bo
edu.bo
gob.bo
int.bo
org.bo
net.bo
mil.bo
tv.bo
web.bo
// Social Domains
academia.bo
agro.bo
arte.bo
blog.bo
bolivia.bo
ciencia.bo
cooperativa.bo
democracia.bo
deporte.bo
ecologia.bo
economia.bo
empresa.bo
indigena.bo
industria.bo
info.bo
medicina.bo
movimiento.bo
musica.bo
natural.bo
nombre.bo
noticias.bo
patria.bo
politica.bo
profesional.bo
plurinacional.bo
pueblo.bo
revista.bo
salud.bo
tecnologia.bo

tksat.bo
transporte.bo
wiki.bo

//
 br : http://registro.br/dominio/categoria.html
// Submitted by registry <fneves@registro.br>
br
9guacu.br
abc.br
adm.br
adv.br
agr.br
aju.br
am.br
anani.br
aparecida.br
app.br
arq.br
art.br
ato.br
b.br
barueri.br
belem.br
bhz.br
bib.br
bio.br
blog.br
bmd.br
boavista.br
bsb.br
campinagrande.br
campinas.br
caxias.br
cim.br
cng.br
cnt.br
com.br
contagem.br
coop.br
coz.br
cri.br
cuiaba.br
curitiba.br
def.br
des.br
det.br
dev.br

ecn.br
eco.br
edu.br
emp.br
enf.br
eng.br
esp.br
etc.br
eti.br
far.br
feira.br
flog.br
floripa.br
fm.br
fnd.br
fortal.br
fot.br
foz.br
fst.br
g12.br
geo.br
ggf.br
goiania.br
gov.br
// gov.br 26 states + df https://en.wikipedia.org/wiki/States_of_Brazil
ac.gov.br
al.gov.br
am.gov.br
ap.gov.br
ba.gov.br
ce.gov.br
df.gov.br
es.gov.br
go.gov.br
ma.gov.br
mg.gov.br
ms.gov.br
mt.gov.br
pa.gov.br
pb.gov.br
pe.gov.br
pi.gov.br
pr.gov.br
rj.gov.br
rn.gov.br
ro.gov.br
rr.gov.br
rs.gov.br

sc.gov.br
se.gov.br
sp.gov.br
to.gov.br
gru.br
imb.br
ind.br
inf.br
jab.br
jampa.br
jdf.br
joinville.br
jor.br
jus.br
leg.br
lel.br
log.br
londrina.br
macapa.br
maceio.br
manaus.br
maringa.br
mat.br
med.br
mil.br
morena.br
mp.br
mus.br
natal.br
net.br
niteroi.br
*.nom.br
not.br
ntr.br
odo.br
ong.br
org.br
osasco.br
palmas.br
poa.br
ppg.br
pro.br
psc.br
psi.br
pvh.br
qsl.br
radio.br
rec.br

recife.br
rep.br
ribeirao.br
rio.br
riobranco.br
riopreto.br
salvador.br
sampa.br
santamaria.br
santoandre.br
saobernardo.br
saogonca.br
seg.br
sjc.br
slg.br
slz.br
sorocaba.br
srv.br
taxi.br
tc.br
tec.br
teo.br
the.br
tmp.br
trd.br
tur.br
tv.br
udi.br
vet.br
vix.br
vlog.br
wiki.br
zlg.br

//
bs : http://www.nic.bs/rules.html
bs
com.bs
net.bs
org.bs
edu.bs
gov.bs

// bt : https://en.wikipedia.org/wiki/.bt
bt
com.bt
edu.bt
gov.bt

net.bt
org.bt

//
 bv : No registrations at this time.
// Submitted by registry <jarle@uninett.no>
bv

// bw : https://en.wikipedia.org/wiki/.bw
// http://www.gobin.info/domainname/bw.doc
// list of other 2nd level tlds ?
bw
co.bw
org.bw

// by : https://en.wikipedia.org/wiki/.by
// http://tld.by/rules_2006_en.html
// list of other 2nd level tlds ?
by
gov.by
mil.by
// Official information does not indicate that com.by is a reserved
// second-level domain, but it's being used as one (see www.google.com.by and
// www.yahoo.com.by, for example), so we list it here for safety's sake.
com.by

// http://hoster.by/
of.by

// bz : https://en.wikipedia.org/wiki/.bz
// http://www.belizenic.bz/
bz
com.bz
net.bz
org.bz
edu.bz
gov.bz

// ca : https://en.wikipedia.org/wiki/.ca
ca
// ca geographical names
ab.ca
bc.ca
mb.ca
nb.ca
nf.ca
nl.ca
ns.ca

nt.ca
nu.ca
on.ca
pe.ca
qc.ca
sk.ca
yk.ca
// gc.ca: https://en.wikipedia.org/wiki/.gc.ca
// see also: http://registry.gc.ca/en/SubdomainFAQ
gc.ca

//
 cat : https://en.wikipedia.org/wiki/.cat
cat

// cc : https://en.wikipedia.org/wiki/.cc
cc

// cd : https://en.wikipedia.org/wiki/.cd
// see also: https://www.nic.cd/domain/insertDomain_2.jsp?act=1
cd
gov.cd

// cf : https://en.wikipedia.org/wiki/.cf
cf

// cg : https://en.wikipedia.org/wiki/.cg
cg

// ch : https://en.wikipedia.org/wiki/.ch
ch

// ci : https://en.wikipedia.org/wiki/.ci
// http://www.nic.ci/index.php?page=charte
ci
org.ci
or.ci
com.ci
co.ci
edu.ci
ed.ci
ac.ci
net.ci
go.ci
asso.ci
aéroport.ci
int.ci
presse.ci

md.ci
gouv.ci

// ck : https://en.wikipedia.org/wiki/.ck
*.ck
!www.ck

// cl : https://www.nic.cl
// Confirmed by .CL registry <hsalgado@nic.cl>
cl
aprendemas.cl
co.cl
gob.cl
gov.cl
mil.cl

// cm : https://en.wikipedia.org/wiki/.cm plus bug 981927
cm
co.cm
com.cm
gov.cm
net.cm

// cn : https://en.wikipedia.org/wiki/.cn
// Submitted by registry <tanyaling@cnnic.cn>
cn
ac.cn
com.cn
edu.cn
gov.cn
net.cn
org.cn
mil.cn
.cn
.cn
.cn
// cn geographic names
ah.cn
bj.cn
cq.cn
fj.cn
gd.cn
gs.cn
gz.cn
gx.cn
ha.cn
hb.cn
he.cn

hi.cn
hl.cn
hn.cn
jl.cn
js.cn
jx.cn
ln.cn
nm.cn
nx.cn
qh.cn
sc.cn
sd.cn
sh.cn
sn.cn
sx.cn
tj.cn
xj.cn
xz.cn
yn.cn
zj.cn
hk.cn
mo.cn
tw.cn

//
 co : https://en.wikipedia.org/wiki/.co
// Submitted by registry <tecnico@uniandes.edu.co>
co
arts.co
com.co
edu.co
firm.co
gov.co
info.co
int.co
mil.co
net.co
nom.co
org.co
rec.co
web.co

// com : https://en.wikipedia.org/wiki/.com
com

// coop : https://en.wikipedia.org/wiki/.coop
coop

// cr : http://www.nic.cr/niccr_publico/showRegistroDominiosScreen.do
cr
ac.cr
co.cr
ed.cr
fi.cr
go.cr
or.cr
sa.cr

// cu : https://en.wikipedia.org/wiki/.cu
cu
com.cu
edu.cu
org.cu
net.cu
gov.cu
inf.cu

// cv : https://en.wikipedia.org/wiki/.cv
cv

// cw : http://www.una.cw/cw_registry/
// Confirmed by registry <registry@una.net> 2013-03-26
cw
com.cw
edu.cw
net.cw
org.cw

// cx : https://en.wikipedia.org/wiki/.cx
// list of other 2nd level tlds ?
cx
gov.cx

// cy : http://www.nic.cy/
// Submitted by registry
Panayiotou Fotia <cydns@ucy.ac.cy>
cy
ac.cy
biz.cy
com.cy
ekloges.cy
gov.cy
ltd.cy
name.cy
net.cy
org.cy

parliament.cy
press.cy
pro.cy
tm.cy

// cz : https://en.wikipedia.org/wiki/.cz
cz

// de : https://en.wikipedia.org/wiki/.de
// Confirmed by registry <ops@denic.de> (with technical
// reservations) 2008-07-01
de

// dj : https://en.wikipedia.org/wiki/.dj
dj

// dk : https://en.wikipedia.org/wiki/.dk
// Confirmed by registry <robert@dk-hostmaster.dk> 2008-06-17
dk

// dm : https://en.wikipedia.org/wiki/.dm
dm
com.dm
net.dm
org.dm
edu.dm
gov.dm

// do : https://en.wikipedia.org/wiki/.do
do
art.do
com.do
edu.do
gob.do
gov.do
mil.do
net.do
org.do
sld.do
web.do

// dz : http://www.nic.dz/images/pdf_nic/charte.pdf
dz
art.dz
asso.dz
com.dz
edu.dz
gov.dz

org.dz
net.dz
pol.dz
soc.dz
tm.dz

// ec : http://www.nic.ec/reg/paso1.asp
// Submitted by registry <vabboud@nic.ec>
ec
com.ec
info.ec
net.ec
fin.ec
k12.ec
med.ec
pro.ec
org.ec
edu.ec
gov.ec
gob.ec
mil.ec

// edu : https://en.wikipedia.org/wiki/.edu
edu

//
ee : http://www.eenet.ee/EENet/dom_reeglid.html#lisa_B
ee
edu.ee
gov.ee
riik.ee
lib.ee
med.ee
com.ee
pri.ee
aip.ee
org.ee
fie.ee

// eg : https://en.wikipedia.org/wiki/.eg
eg
com.eg
edu.eg
eun.eg
gov.eg
mil.eg
name.eg
net.eg

org.eg
sci.eg

// er : https://en.wikipedia.org/wiki/.er
*.er

// es : https://www.nic.es/site_ingles/ingles/dominios/index.html
es
com.es
nom.es
org.es
gob.es
edu.es

// et : https://en.wikipedia.org/wiki/.et
et
com.et
gov.et
org.et
edu.et
biz.et
name.et
info.et
net.et

// eu : https://en.wikipedia.org/wiki/.eu
eu

// fi : https://en.wikipedia.org/wiki/.fi
fi
// aland.fi : https://en.wikipedia.org/wiki/.ax
// This domain is being phased out in favor of .ax. As there are still many
// domains under aland.fi, we still keep it on the list until aland.fi is
// completely removed.
// TODO: Check for updates (expected to be phased out around Q1/2009)
aland.fi

// fj : http://domains.fj/
// Submitted by registry <garth.miller@cocca.org.nz> 2020-02-11
fj
ac.fj
biz.fj
com.fj
gov.fj
info.fj
mil.fj
name.fj
net.fj

org.fj
pro.fj

//
fk : https://en.wikipedia.org/wiki/.fk
*.fk

// fm : https://en.wikipedia.org/wiki/.fm
com.fm
edu.fm
net.fm
org.fm
fm

// fo : https://en.wikipedia.org/wiki/.fo
fo

// fr : http://www.afnic.fr/
// domaines descriptifs :
https://www.afnic.fr/medias/documents/Cadre_legal/Afnic_Naming_Policy_12122016_VEN.pdf
fr
asso.fr
com.fr
gouv.fr
nom.fr
prd.fr
tm.fr
// domaines sectoriels : https://www.afnic.fr/en/products-and-services/the-fr-tld/sector-based-fr-domains-4.html
aeroport.fr
avocat.fr
avoues.fr
cci.fr
chambagri.fr
chirurgiens-dentistes.fr
experts-comptables.fr
geometre-expert.fr
greta.fr
huissier-justice.fr
medecin.fr
notaires.fr
pharmacien.fr
port.fr
veterinaire.fr

// ga : https://en.wikipedia.org/wiki/.ga
ga

// gb : This registry is effectively dormant

// Submitted by registry <Damien.Shaw@ja.net>
gb

// gd : https://en.wikipedia.org/wiki/.gd
edu.gd
gov.gd
gd

// ge : http://www.nic.net.ge/policy_en.pdf
ge
com.ge
edu.ge
gov.ge
org.ge
mil.ge
net.ge
pvt.ge

//
 gf : https://en.wikipedia.org/wiki/.gf
gf

// gg : http://www.channelisles.net/register-domains/
// Confirmed by registry <nigel@channelisles.net> 2013-11-28
gg
co.gg
net.gg
org.gg

// gh : https://en.wikipedia.org/wiki/.gh
// see also: http://www.nic.gh/reg_now.php
// Although domains directly at second level are not possible at the moment,
// they have been possible for some time and may come back.
gh
com.gh
edu.gh
gov.gh
org.gh
mil.gh

// gi : http://www.nic.gi/rules.html
gi
com.gi
ltd.gi
gov.gi
mod.gi
edu.gi
org.gi

// gl : https://en.wikipedia.org/wiki/.gl
// http://nic.gl
gl
co.gl
com.gl
edu.gl
net.gl
org.gl

// gm : http://www.nic.gm/htmlpages%5Cgm-policy.htm
gm

// gn : http://psg.com/dns/gn/gn.txt
// Submitted by registry <randy@psg.com>
gn
ac.gn
com.gn
edu.gn
gov.gn
org.gn
net.gn

// gov : https://en.wikipedia.org/wiki/.gov
gov

// gp : http://www.nic.gp/index.php?lang=en
gp
com.gp
net.gp
mobi.gp
edu.gp
org.gp
asso.gp

//
 gq : https://en.wikipedia.org/wiki/.gq
gq

// gr : https://grweb.ics.forth.gr/english/1617-B-2005.html
// Submitted by registry <segred@ics.forth.gr>
gr
com.gr
edu.gr
net.gr
org.gr
gov.gr

// gs : https://en.wikipedia.org/wiki/.gs
gs

// gt : https://www.gt/sitio/registration_policy.php?lang=en
gt
com.gt
edu.gt
gob.gt
ind.gt
mil.gt
net.gt
org.gt

// gu : http://gadao.gov.gu/register.html
// University of Guam : https://www.uog.edu
// Submitted by uognoc@triton.uog.edu
gu
com.gu
edu.gu
gov.gu
guam.gu
info.gu
net.gu
org.gu
web.gu

// gw : https://en.wikipedia.org/wiki/.gw
gw

// gy : https://en.wikipedia.org/wiki/.gy
// http://registry.gy/
gy
co.gy
com.gy
edu.gy
gov.gy
net.gy
org.gy

// hk : https://www.hkirc.hk
// Submitted by registry <hk.tech@hkirc.hk>
hk
com.hk
edu.hk
gov.hk
idv.hk
net.hk
org.hk

.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk
.hk

// hm : https://en.wikipedia.org/wiki/.hm
hm

// hn : http://www.nic.hn/politicas/ps02,,05.html
hn
com.hn
edu.hn
org.hn
net.hn
mil.hn
gob.hn

//
hr : http://www.dns.hr/documents/pdf/HRTLD-regulations.pdf
hr
iz.hr
from.hr
name.hr
com.hr

// ht : http://www.nic.ht/info/charte.cfm
ht
com.ht
shop.ht
firm.ht
info.ht
adult.ht
net.ht
pro.ht
org.ht
med.ht
art.ht

coop.ht
pol.ht
asso.ht
edu.ht
rel.ht
gouv.ht
perso.ht

// hu : http://www.domain.hu/domain/English/sld.html
// Confirmed by registry <pasztor@iszt.hu> 2008-06-12
hu
co.hu
info.hu
org.hu
priv.hu
sport.hu
tm.hu
2000.hu
agrar.hu
bolt.hu
casino.hu
city.hu
erotica.hu
erotika.hu
film.hu
forum.hu
games.hu
hotel.hu
ingatlan.hu
jogasz.hu
konyvelo.hu
lakas.hu
media.hu
news.hu
reklam.hu
sex.hu
shop.hu
suli.hu
szex.hu
tozsde.hu
utazas.hu
video.hu

// id : https://pandi.id/en/domain/registration-requirements/
id
ac.id
biz.id
co.id

desa.id
go.id
mil.id
my.id
net.id
or.id
ponpes.id
sch.id
web.id

// ie : https://en.wikipedia.org/wiki/.ie
ie
gov.ie

// il : http://www.isoc.org.il/domains/
il
ac.il
co.il
gov.il
idf.il
k12.il
muni.il
net.il
org.il

//
 im : https://www.nic.im/
// Submitted by registry <info@nic.im>
im
ac.im
co.im
com.im
ltd.co.im
net.im
org.im
plc.co.im
tt.im
tv.im

// in : https://en.wikipedia.org/wiki/.in
// see also: https://registry.in/Policies
// Please note, that nic.in is not an official eTLD, but used by most
// government institutions.
in
co.in
firm.in
net.in
org.in

gen.in
ind.in
nic.in
ac.in
edu.in
res.in
gov.in
mil.in

// info : https://en.wikipedia.org/wiki/.info
info

// int : https://en.wikipedia.org/wiki/.int
// Confirmed by registry <iana-questions@icann.org> 2008-06-18
int
eu.int

// io : http://www.nic.io/rules.html
// list of other 2nd level tlds ?
io
com.io

// iq : http://www.cmc.iq/english/iq/iqregister1.htm
iq
gov.iq
edu.iq
mil.iq
com.iq
org.iq
net.iq

// ir : http://www.nic.ir/Terms_and_Conditions_ir,_Appendix_1_Domain_Rules
// Also see http://www.nic.ir/Internationalized_Domain_Names
// Two <iran>.ir entries added at request of <tech-team@nic.ir>, 2010-04-16
ir
ac.ir
co.ir
gov.ir
id.ir
net.ir
org.ir
sch.ir
//
 xn--mgba3a4f16a.ir (<iran>.ir, Persian YEH)
.ir
// xn--mgba3a4fra.ir (<iran>.ir, Arabic YEH)
.ir

// is : http://www.isnic.is/domain/rules.php
// Confirmed by registry <marius@isgate.is> 2008-12-06
is
net.is
com.is
edu.is
gov.is
org.is
int.is

// it : https://en.wikipedia.org/wiki/.it
it
gov.it
edu.it
// Reserved geo-names (regions and provinces):
// https://www.nic.it/sites/default/files/archivio/docs/Regulation_assignation_v7.1.pdf
// Regions
abr.it
abruzzo.it
aosta-valley.it
aostavalley.it
bas.it
basilicata.it
cal.it
calabria.it
cam.it
campania.it
emilia-romagna.it
emiliaromagna.it
emr.it
friuli-v-giulia.it
friuli-ve-giulia.it
friuli-vegiulia.it
friuli-venezia-giulia.it
friuli-veneziagiulia.it
friuli-vgiulia.it
friuliv-giulia.it
friulive-giulia.it
friulivegiulia.it
friulivenezia-giulia.it
friuliveneziagiulia.it
friulivgiulia.it
fvg.it
laz.it
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campidanomedio.it
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fm.it

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massacarrara.it
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mc.it
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mediocampidano.it
messina.it
mi.it

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mn.it
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olbiatempio.it
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oristano.it
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padova.it
padua.it
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pesarourbino.it
pescara.it
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treviso.it
trieste.it
ts.it
turin.it
tv.it
ud.it
udine.it
urbino-pesaro.it
urbinopesaro.it
va.it
varese.it
vb.it
vc.it
ve.it
venezia.it
venice.it
verbania.it
vercelli.it
verona.it
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vibo-valentia.it
vibovalentia.it
vicenza.it
viterbo.it
vr.it
vs.it
vt.it
vv.it

//
je : http://www.channelisles.net/register-domains/
// Confirmed by registry <nigel@channelisles.net> 2013-11-28
je
co.je
net.je
org.je

// jm : http://www.com.jm/register.html
*.jm

// jo : http://www.dns.jo/Registration_policy.aspx
jo
com.jo
org.jo
net.jo
edu.jo
sch.jo
gov.jo
mil.jo
name.jo

// jobs : https://en.wikipedia.org/wiki/.jobs
jobs

// jp : https://en.wikipedia.org/wiki/.jp
// http://jprs.co.jp/en/jpdomain.html
// Submitted by registry <info@jprs.jp>
jp
// jp organizational type names
ac.jp
ad.jp
co.jp
ed.jp
go.jp
gr.jp
lg.jp
ne.jp
or.jp
// jp prefecture type names
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akita.jp
aomori.jp
chiba.jp
ehime.jp
fukui.jp
fukuoka.jp
fukushima.jp
gifu.jp
gunma.jp
hiroshima.jp
hokkaido.jp
hyogo.jp
ibaraki.jp
ishikawa.jp
iwate.jp

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kagoshima.jp
kanagawa.jp
kochi.jp
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kyoto.jp
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//
jp geographic type names
// http://jprs.jp/doc/rule/saisoku-1.html
*.kawasaki.jp
*.kitakyushu.jp
*.kobe.jp
*.nagoya.jp
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// 4th level registration

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ke : http://www.kenic.or.ke/index.php/en/ke-domains/ke-domains
ke
ac.ke
co.ke
go.ke

info.ke
me.ke
mobi.ke
ne.ke
or.ke
sc.ke

// kg : http://www.domain.kg/dmn_n.html
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org.kg
net.kg
com.kg
edu.kg
gov.kg
mil.kg

// kh : http://www.mptc.gov.kh/dns_registration.htm
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// ki : http://www.ki/dns/index.html
ki
edu.ki
biz.ki
net.ki
org.ki
gov.ki
info.ki
com.ki

// km : https://en.wikipedia.org/wiki/.km
// http://www.domaine.km/documents/charte.doc
km
org.km
nom.km
gov.km
prd.km
tm.km
edu.km
mil.km
ass.km
com.km
//
These are only mentioned as proposed suggestions at domaine.km, but
// https://en.wikipedia.org/wiki/.km says they're available for registration:
coop.km
asso.km
presse.km
medecin.km

notaires.km
pharmaciens.km
veterinaire.km
gouv.km

// kn : https://en.wikipedia.org/wiki/.kn
// http://www.dot.kn/domainRules.html
kn
net.kn
org.kn
edu.kn
gov.kn

// kp : http://www.kcce.kp/en_index.php
kp
com.kp
edu.kp
gov.kp
org.kp
rep.kp
tra.kp

// kr : https://en.wikipedia.org/wiki/.kr
// see also: http://domain.nida.or.kr/eng/registration.jsp
kr
ac.kr
co.kr
es.kr
go.kr
hs.kr
kg.kr
mil.kr
ms.kr
ne.kr
or.kr
pe.kr
re.kr
sc.kr
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gyeonggi.kr

gyeongnam.kr
incheon.kr
jeju.kr
jeonbuk.kr
jeonnam.kr
seoul.kr
ulsan.kr

// kw : https://www.nic.kw/policies/
// Confirmed by registry <nic.tech@citra.gov.kw>
kw
com.kw
edu.kw
emb.kw
gov.kw
ind.kw
net.kw
org.kw

// ky : http://www.icta.ky/da_ky_reg_dom.php
//
Confirmed by registry <kysupport@perimeterusa.com> 2008-06-17
ky
edu.ky
gov.ky
com.ky
org.ky
net.ky

// kz : https://en.wikipedia.org/wiki/.kz
// see also: http://www.nic.kz/rules/index.jsp
kz
org.kz
edu.kz
net.kz
gov.kz
mil.kz
com.kz

// la : https://en.wikipedia.org/wiki/.la
// Submitted by registry <gavin.brown@nic.la>
la
int.la
net.la
info.la
edu.la
gov.la
per.la

com.la
org.la

// lb : https://en.wikipedia.org/wiki/.lb
// Submitted by registry <randy@psg.com>
lb
com.lb
edu.lb
gov.lb
net.lb
org.lb

// lc : https://en.wikipedia.org/wiki/.lc
// see also: http://www.nic.lc/rules.htm
lc
com.lc
net.lc
co.lc
org.lc
edu.lc
gov.lc

// li : https://en.wikipedia.org/wiki/.li
li

// lk : https://www.nic.lk/index.php/domain-registration/lk-domain-naming-structure
lk
gov.lk
sch.lk
net.lk
int.lk
com.lk
org.lk
edu.lk
ngo.lk
soc.lk
web.lk
ltd.lk
assn.lk
grp.lk
hotel.lk
ac.lk

// lr : http://psg.com/dns/lr/lr.txt
// Submitted by registry <randy@psg.com>
lr
com.lr
edu.lr

gov.lr
org.lr
net.lr

//
ls : http://www.nic.ls/
// Confirmed by registry <lsadmin@nic.ls>
ls
ac.ls
biz.ls
co.ls
edu.ls
gov.ls
info.ls
net.ls
org.ls
sc.ls

// lt : https://en.wikipedia.org/wiki/.lt
lt
// gov.lt : http://www.gov.lt/index_en.php
gov.lt

// lu : http://www.dns.lu/en/
lu

// lv : http://www.nic.lv/DNS/En/generic.php
lv
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edu.lv
gov.lv
org.lv
mil.lv
id.lv
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asn.lv
conf.lv

// ly : http://www.nic.ly/regulations.php
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plc.ly
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sch.ly
med.ly
org.ly

id.ly

// ma : https://en.wikipedia.org/wiki/.ma
// http://www.anrt.ma/fr/admin/download/upload/file_fr782.pdf
ma
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net.ma
gov.ma
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// mc : http://www.nic.mc/
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// md : https://en.wikipedia.org/wiki/.md
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// me : https://en.wikipedia.org/wiki/.me
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org.me
edu.me
ac.me
gov.me
its.me
priv.me

// mg : http://nic.mg/nicmg/?page_id=39
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gov.mg
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tm.mg
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com.mg
co.mg

// mh : https://en.wikipedia.org/wiki/.mh
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// mil : https://en.wikipedia.org/wiki/.mil
mil

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//
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// see also: http://dns.marnet.net.mk/postapka.php
mk
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net.mk
edu.mk
gov.mk
inf.mk
name.mk

// ml : http://www.gobin.info/domainname/ml-template.doc
// see also: https://en.wikipedia.org/wiki/.ml
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org.ml
presse.ml

// mm : https://en.wikipedia.org/wiki/.mm
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// mn : https://en.wikipedia.org/wiki/.mn
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org.mn

// mo : http://www.monic.net.mo/
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gov.mo

// mobi : https://en.wikipedia.org/wiki/.mobi
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// mp : http://www.dot.mp/
// Confirmed by registry <dcamacho@saipan.com> 2008-06-17
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// mq : https://en.wikipedia.org/wiki/.mq
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// mr : https://en.wikipedia.org/wiki/.mr
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gov.mr

// ms : http://www.nic.ms/pdf/MS_Domain_Name_Rules.pdf
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org.ms

// mt : https://www.nic.org.mt/go/policy
// Submitted by registry <help@nic.org.mt>
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org.mt

// mu : https://en.wikipedia.org/wiki/.mu
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gov.mu
ac.mu
co.mu
or.mu

//
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// http://index.museum/
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baseball.museum
basel.museum
baths.museum
bauern.museum
beauxarts.museum
beeldengeluid.museum
bellevue.museum
bergbau.museum
berkeley.museum
berlin.museum
bern.museum

bible.museum
bilbao.museum
bill.museum
birdart.museum
birthplace.museum
bonn.museum
boston.museum
botanical.museum
botanicalgarden.museum
botanicgarden.museum
botany.museum
brandywinevalley.museum
brasil.museum
bristol.museum
british.museum
britishcolumbia.museum
broadcast.museum
brunel.museum
brussel.museum
brussels.museum
bruxelles.museum
building.museum
burghof.museum
bus.museum
bushey.museum
cadaques.museum
california.museum
cambridge.museum
can.museum
canada.museum
capebreton.museum
carrier.museum
cartoonart.museum
casadelamoneda.museum
castle.museum
castres.museum
celtic.museum
center.museum
chattanooga.museum
cheltenham.museum
chesapeakebay.museum
chicago.museum
children.museum
childrens.museum
childrensgarden.museum
chiropractic.museum
chocolate.museum
christiansburg.museum

cincinnati.museum
cinema.museum
circus.museum
civilisation.museum
civilization.museum
civilwar.museum
clinton.museum
clock.museum
coal.museum
coastaldefence.museum
cody.museum
coldwar.museum
collection.museum
colonialwilliamsburg.museum
coloradoplateau.museum
columbia.museum
columbus.museum
communication.museum
communications.museum
community.museum
computer.museum
computerhistory.museum
comunicações.museum
contemporary.museum
contemporaryart.museum
convent.museum
copenhagen.museum
corporation.museum
correios-e-telecomunicações.museum
corvette.museum
costume.museum
countryestate.museum
county.museum
crafts.museum
cranbrook.museum
creation.museum
cultural.museum
culturalcenter.museum
culture.museum
cyber.museum
cymru.museum
dali.museum
dallas.museum
database.museum
ddr.museum
decorativearts.museum
delaware.museum
delmenhorst.museum

denmark.museum
depot.museum
design.museum
detroit.museum
dinosaur.museum
discovery.museum
dolls.museum
donostia.museum
durham.museum
eastafrica.museum
eastcoast.museum
education.museum
educational.museum
egyptian.museum
eisenbahn.museum
elburg.museum
elvendrell.museum
embroidery.museum
encyclopedic.museum
england.museum
entomology.museum
environment.museum
environmentalconservation.museum
epilepsy.museum
essex.museum
estate.museum
ethnology.museum
exeter.museum
exhibition.museum
family.museum
farm.museum
farmequipment.museum
farmers.museum
farmstead.museum
field.museum
figueres.museum
filatelia.museum
film.museum
fineart.museum
finearts.museum
finland.museum
flanders.museum
florida.museum
force.museum
fortmissoula.museum
fortworth.museum
foundation.museum
francaise.museum

frankfurt.museum
franziskaner.museum
freemasonry.museum
freiburg.museum
fribourg.museum
frog.museum
fundacio.museum
furniture.museum
gallery.museum
garden.museum
gateway.museum
geelvinck.museum
gemological.museum
geology.museum
georgia.museum
giessen.museum
glas.museum
glass.museum
gorge.museum
grandrapids.museum
graz.museum
guernsey.museum
halloffame.museum
hamburg.museum
handson.museum
harvestcelebration.museum
hawaii.museum
health.museum
heimatunduhren.museum
hellas.museum
helsinki.museum
hembygdsforbund.museum
heritage.museum
histoire.museum
historical.museum
historicalsociety.museum
historichouses.museum
historisch.museum
historisches.museum
history.museum
historyofscience.museum
horology.museum
house.museum
humanities.museum
illustration.museum
imageandsound.museum
indian.museum
indiana.museum

indianapolis.museum
indianmarket.museum
intelligence.museum
interactive.museum
iraq.museum
iron.museum
isleofman.museum
jamison.museum
jefferson.museum
jerusalem.museum
jewelry.museum
jewish.museum
jewishart.museum
jfk.museum
journalism.museum
judaica.museum
judygarland.museum
juedisches.museum
juif.museum
karate.museum
karikatur.museum
kids.museum
koebenhavn.museum
koeln.museum
kunst.museum
kunstsammlung.museum
kunstunddesign.museum
labor.museum
labour.museum
lajolla.museum
lancashire.museum
landes.museum
lans.museum
läns.museum
larsson.museum
lewismiller.museum
lincoln.museum
linz.museum
living.museum
livinghistory.museum
localhistory.museum
london.museum
losangeles.museum
louvre.museum
loyalist.museum
lucerne.museum
luxembourg.museum
luzern.museum

mad.museum
madrid.museum
mallorca.museum
manchester.museum
mansion.museum
mansions.museum
manx.museum
marburg.museum
maritime.museum
maritimo.museum
maryland.museum
marylhurst.museum
media.museum
medical.museum
medizinhistorisches.museum
meeres.museum
memorial.museum
mesaverde.museum
michigan.museum
midatlantic.museum
military.museum
mill.museum
miners.museum
mining.museum
minnesota.museum
missile.museum
missoula.museum
modern.museum
moma.museum
money.museum
monmouth.museum
monticello.museum
montreal.museum
moscow.museum
motorcycle.museum
muenchen.museum
muenster.museum
mulhouse.museum
muncie.museum
museet.museum
museumcenter.museum
museumvereniging.museum
music.museum
national.museum
nationalfirearms.museum
nationalheritage.museum
nativeamerican.museum
naturalhistory.museum

naturalhistorymuseum.museum
naturalsciences.museum
nature.museum
naturhistorisches.museum
natuurwetenschappen.museum
naumburg.museum
naval.museum
nebraska.museum
neues.museum
newhampshire.museum
newjersey.museum
newmexico.museum
newport.museum
newspaper.museum
newyork.museum
niepce.museum
norfolk.museum
north.museum
nrw.museum
nyc.museum
nyny.museum
oceanographic.museum
oceanographique.museum
omaha.museum
online.museum
ontario.museum
openair.museum
oregon.museum
oregontrail.museum
otago.museum
oxford.museum
pacific.museum
paderborn.museum
palace.museum
paleo.museum
palmsprings.museum
panama.museum
paris.museum
pasadena.museum
pharmacy.museum
philadelphia.museum
philadelphiaarea.museum
philately.museum
phoenix.museum
photography.museum
pilots.museum
pittsburgh.museum
planetarium.museum

plantation.museum
plants.museum
plaza.museum
portal.museum
portland.museum
portlligat.museum
posts-and-telecommunications.museum
preservation.museum
presidio.museum
press.museum
project.museum
public.museum
pubol.museum
quebec.museum
railroad.museum
railway.museum
research.museum
resistance.museum
riodejaneiro.museum
rochester.museum
rockart.museum
roma.museum
russia.museum
saintlouis.museum
salem.museum
salvadordali.museum
salzburg.museum
sandiego.museum
sanfrancisco.museum
santabarbara.museum
santacruz.museum
santafe.museum
saskatchewan.museum
satx.museum
savannahga.museum
schlesisches.museum
schoenbrunn.museum
schokoladen.museum
school.museum
schweiz.museum
science.museum
scienceandhistory.museum
scienceandindustry.museum
sciencecenter.museum
sciencecenters.museum
science-fiction.museum
sciencehistory.museum
sciences.museum

sciencesnaturelles.museum
scotland.museum
seaport.museum
settlement.museum
settlers.museum
shell.museum
sherbrooke.museum
sibenik.museum
silk.museum
ski.museum
skole.museum
society.museum
sologne.museum
soundandvision.museum
southcarolina.museum
southwest.museum
space.museum
spy.museum
square.museum
stadt.museum
stalbans.museum
starnberg.museum
state.museum
stateofdelaware.museum
station.museum
steam.museum
steiermark.museum
stjohn.museum
stockholm.museum
stpetersburg.museum
stuttgart.museum
suisse.museum
surgeonshall.museum
surrey.museum
svizzera.museum
sweden.museum
sydney.museum
tank.museum
tcm.museum
technology.museum
telekommunikation.museum
television.museum
texas.museum
textile.museum
theater.museum
time.museum
timekeeping.museum
topology.museum

torino.museum
touch.museum
town.museum
transport.museum
tree.museum
trolley.museum
trust.museum
trustee.museum
uhren.museum
ulm.museum
undersea.museum
university.museum
usa.museum
usantiques.museum
usarts.museum
uscountryestate.museum
usculture.museum
usdecorativearts.museum
usgarden.museum
ushistory.museum
ushuaia.museum
uslivinghistory.museum
utah.museum
uvic.museum
valley.museum
vantaa.museum
versailles.museum
viking.museum
village.museum
virginia.museum
virtual.museum
virtuel.museum
vlaanderen.museum
volkenkunde.museum
wales.museum
wallonie.museum
war.museum
washingtondc.museum
watchandclock.museum
watch-and-clock.museum
western.museum
westfalen.museum
whaling.museum
wildlife.museum
williamsburg.museum
windmill.museum
workshop.museum
york.museum

yorkshire.museum
yosemite.museum
youth.museum
zoological.museum
zoology.museum
.museum
.museum

//
 mv : https://en.wikipedia.org/wiki/.mv
// "mv" included because, contra Wikipedia, google.mv exists.
mv
aero.mv
biz.mv
com.mv
coop.mv
edu.mv
gov.mv
info.mv
int.mv
mil.mv
museum.mv
name.mv
net.mv
org.mv
pro.mv

// mw : http://www.registrar.mw/
mw
ac.mw
biz.mw
co.mw
com.mw
coop.mw
edu.mw
gov.mw
int.mw
museum.mw
net.mw
org.mw

// mx : http://www.nic.mx/
// Submitted by registry <farias@nic.mx>
mx
com.mx
org.mx
gob.mx
edu.mx

net.mx

// my : http://www.mynic.net.my/
my
com.my
net.my
org.my
gov.my
edu.my
mil.my
name.my

// mz : http://www.uem.mz/
// Submitted by registry <antonio@uem.mz>
mz
ac.mz
adv.mz
co.mz
edu.mz
gov.mz
mil.mz
net.mz
org.mz

// na : http://www.na-nic.com.na/
// http://www.info.na/domain/
na
info.na
pro.na
name.na
school.na
or.na
dr.na
us.na
mx.na
ca.na
in.na
cc.na
tv.na
ws.na
mobi.na
co.na
com.na
org.na

// name : has 2nd-level tlds,
but there's no list of them
name

// nc : http://www.cctld.nc/
nc
asso.nc
nom.nc

// ne : https://en.wikipedia.org/wiki/.ne
ne

// net : https://en.wikipedia.org/wiki/.net
net

// nf : https://en.wikipedia.org/wiki/.nf
nf
com.nf
net.nf
per.nf
rec.nf
web.nf
arts.nf
firm.nf
info.nf
other.nf
store.nf

// ng : http://www.nira.org.ng/index.php/join-us/register-ng-domain/189-nira-slds
ng
com.ng
edu.ng
gov.ng
i.ng
mil.ng
mobi.ng
name.ng
net.ng
org.ng
sch.ng

// ni : http://www.nic.ni/
ni
ac.ni
biz.ni
co.ni
com.ni
edu.ni
gob.ni
in.ni
info.ni

int.ni
mil.ni
net.ni
nom.ni
org.ni
web.ni

// nl : https://en.wikipedia.org/wiki/.nl
// https://www.sidn.nl/
// ccTLD for the Netherlands
nl

// no : https://www.norid.no/en/om-domenenavn/regelverk-for-no/
// Norid geographical second level domains : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-b/
// Norid category second level domains : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-c/
// Norid category second-level
 domains managed by parties other than Norid : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-d/
no
// Norid category second level domains : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-c/
fhs.no
vgs.no
fylkesbibl.no
folkebibl.no
museum.no
idrett.no
priv.no
// Norid category second-level domains managed by parties other than Norid : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-d/
mil.no
stat.no
dep.no
kommune.no
herad.no
// Norid geographical second level domains : https://www.norid.no/en/om-domenenavn/regelverk-for-no/vedlegg-b/
// counties
aa.no
ah.no
bu.no
fm.no
hl.no
hm.no
jan-mayen.no
mr.no
nl.no
nt.no
of.no
ol.no

oslo.no
rl.no
sf.no
st.no
svalbard.no
tm.no
tr.no
va.no
vf.no
// primary and lower secondary schools per county
gs.aa.no
gs.ah.no
gs.bu.no
gs.fm.no
gs.hl.no
gs.hm.no
gs.jan-mayen.no
gs.mr.no
gs.nl.no
gs.nt.no
gs.of.no
gs.ol.no
gs.oslo.no
gs.rl.no
gs.sf.no
gs.st.no
gs.svalbard.no
gs.tm.no
gs.tr.no
gs.va.no
gs.vf.no
//
cities
akrehamn.no
åkrehamn.no
algard.no
ålgård.no
arna.no
brumunddal.no
bryne.no
bronnoysund.no
brønnøysund.no
drobak.no
drøbak.no
egersund.no
fetsund.no
floro.no
florø.no

fredrikstad.no
hokksund.no
honefoss.no
hønefoss.no
jessheim.no
jorpeland.no
jørpeland.no
kirkenes.no
kopervik.no
krokstadelva.no
langevag.no
langevåg.no
leirvik.no
mjondalen.no
mjøndalen.no
mo-i-rana.no
mosjoen.no
mosjøen.no
nesoddtangen.no
orkanger.no
osoyro.no
osøyro.no
raholt.no
råholt.no
sandnessjoen.no
sandnessjøen.no
skedsmokorset.no
slattum.no
spjelkavik.no
stathelle.no
stavern.no
stjordalshalsen.no
stjørdalshalsen.no
tananger.no
tranby.no
vossevangen.no
// communities
afjord.no
åfjord.no
agdenes.no
al.no
ål.no
alesund.no
ålesund.no
alstahaug.no
alta.no
áltá.no
alaheadju.no

álaheadju.no
alvdal.no
amli.no
åmli.no
amot.no
åmot.no
andebu.no
andoy.no
andøy.no
andasuolo.no
ardal.no
årdal.no
aremark.no
arendal.no
ås.no
aseral.no
åseral.no
asker.no
askim.no
askvoll.no
askoy.no
askøy.no
asnes.no
åsnes.no
audnedaln.no
aukra.no
aure.no
aurland.no
aurskog-holand.no
aurskog-høland.no
austevoll.no
austrheim.no
averoy.no
averøy.no
balestrand.no
ballangen.no
balat.no
bálát.no
balsfjord.no
bahccavuotna.no
báhccavuotna.no
bamble.no
bardu.no
beardu.no
beiarn.no
bajddar.no
bájddar.no
baidar.no

báidár.no
berg.no
bergen.no
berlevag.no
berlevåg.no
bearalvahki.no
bearalváhki.no
bindal.no
birkenes.no
bjarkoy.no
bjarkøy.no
bjerkreim.no
bjugn.no
bodo.no
bodø.no
badaddja.no
bådåddjå.no
budejju.no
bokn.no
bremanger.no
bronnoy.no
brønnøy.no
bygland.no
bykle.no
barum.no
bærum.no
bo.telemark.no
bø.telemark.no
bo.nordland.no
bø.nordland.no
bievat.no
bievát.no
bomlo.no
bømlo.no
batsfjord.no
båtsfjord.no
bahcavuotna.no
báhcavuotna.no
dovre.no
drammen.no
drangedal.no
dyroy.no
dyrøy.no
donna.no
dønna.no
eid.no
eidfjord.no
eidsberg.no

eidskog.no
eidsvoll.no
eigersund.no
elverum.no
enebakk.no
engerdal.no
etne.no
etnedal.no
evenes.no
evenassi.no
evenášši.no
evje-og-hornnes.no
farsund.no
fauske.no
fuossko.no
fuoisku.no
fedje.no
fet.no
finnoy.no
finnøy.no
fitjar.no
fjaler.no
fjell.no
flakstad.no
flatanger.no
flekkefjord.no
flesberg.no
flora.no
fla.no
flå.no
folldal.no
forsand.no
fosnes.no
frei.no
frogn.no
froland.no
frosta.no
frana.no
fræna.no
froya.no
frøya.no
fusa.no
fyresdal.no
forde.no
førde.no
gamvik.no
gangaviika.no
gágaviika.no

gaular.no
gausdal.no
gildeskal.no
gildeskål.no
giske.no
gjemnes.no
gjerdrum.no
gjerstad.no
gjesdal.no
gjovik.no
gjøvik.no
gloppen.no
gol.no
gran.no
grane.no
granvin.no
gratangen.no
grimstad.no
grong.no
kraanghke.no
kråanghke.no
grue.no
gulen.no
hadsel.no
halden.no
halsa.no
hamar.no
hamaroy.no
habmer.no
hábmer.no
hapmir.no
hápmir.no
hammerfest.no
hammarfeasta.no
hámmárfeasta.no
haram.no
hareid.no
harstad.no
hasvik.no
aknoluokta.no
ákoluokta.no
hattfjelldal.no
aarborte.no
haugesund.no
hemne.no
hemnes.no
hemsedal.no
heroy.more-og-romsdal.no

herøy.møre-og-romsdal.no
heroy.nordland.no
herøy.nordland.no
hitra.no
hjartdal.no
hjelmeland.no
hobol.no
hobøl.no
hof.no
hol.no
hole.no
holmestrand.no
holtalen.no
holtålen.no
hornindal.no
horten.no
hurdal.no
hurum.no
hvaler.no
hyllestad.no
hagebostad.no
hægebostad.no
hoyanger.no
høyanger.no
hoylandet.no
høylandet.no
ha.no
hå.no
ibestad.no
inderoy.no
inderøy.no
iveland.no
jevnaker.no
jondal.no
jolster.no
jølster.no
karasjok.no
karasjohka.no
kárášjohka.no
karlsoy.no
galsa.no
gálsá.no
karmoy.no
karmøy.no
kautokeino.no
guovdageaidnu.no
klepp.no
klabu.no

klæbu.no
kongsberg.no
kongsvinger.no
kragero.no
kragerø.no
kristiansand.no
kristiansund.no
krodsherad.no
krødsherad.no
kvalsund.no
rahkkeravju.no
ráhkkerávju.no
kvam.no
kvinesdal.no
kvinnherad.no
kviteseid.no
kvitsoy.no
kvitsøy.no
kvafjord.no
kvæfjord.no
giehtavuoatna.no
kvanangen.no
kvænangen.no
navuotna.no
návuotna.no
kafjord.no
kåfjord.no
gaivuotna.no
gáivuotna.no
larvik.no
lavangen.no
lavagis.no
loabat.no
loabát.no
lebesby.no
davvesiida.no
leikanger.no
leirfjord.no
leka.no
leksvik.no
lenvik.no
leangaviika.no
leagaviika.no
lesja.no
levanger.no
lier.no
lierne.no
lillehammer.no

lillesand.no
lindesnes.no
lindas.no
lindås.no
lom.no
loppa.no
lahppi.no
láhppi.no
lund.no
lunner.no
luroy.no
lurøy.no
luster.no
lyngdal.no
lyngen.no
ivgu.no
lardal.no
lerdal.no
lærdal.no
lodingen.no
lødingen.no
lorenskog.no
lørenskog.no
loten.no
løten.no
malvik.no
masoy.no
måsøy.no
muosat.no
muosát.no
mandal.no
marker.no
marnardal.no
masfjorden.no
meland.no
meldal.no
melhus.no
meloy.no
meløy.no
meraker.no
meråker.no
moareke.no
moåreke.no
midsund.no
midtre-gauldal.no
modalen.no
modum.no
molde.no

moskenes.no
moss.no
mosvik.no
malselv.no
målselv.no
malatvuopmi.no
málatvuopmi.no
namdalseid.no
aejrie.no
namsos.no
namsskogan.no
naamesjevuemie.no
nååmesjevuemie.no
laakesvuemie.no
nannestad.no
narvik.no
narviika.no
naustdal.no
nedre-eiker.no
nes.akershus.no
nes.buskerud.no
nesna.no
nesodden.no
nesseby.no
unjarga.no
unjárga.no
nesset.no
nissedal.no
nittedal.no
nord-aurdal.no
nord-fron.no
nord-odal.no
norddal.no
nordkapp.no
davvenjarga.no
davvenjárga.no
nordre-land.no
nordreisa.no
raisa.no
ráisa.no
nore-og-uvdal.no
notodden.no
naroy.no
nærøy.no
notteroy.no
nøtterøy.no
odda.no
oksnes.no

øksnes.no
oppdal.no
oppegard.no
oppegård.no
orkdal.no
orland.no
ørland.no
orskog.no
ørskog.no
orsta.no
ørsta.no
os.hedmark.no
os.hordaland.no
osen.no
osteroy.no
osterøy.no
ostre-toten.no
østre-toten.no
overhalla.no
ovre-eiker.no
øvre-eiker.no
oyer.no
øyer.no
oygarden.no
øygarden.no
oystre-slidre.no
øystre-slidre.no
porsanger.no
porsangu.no
porsáǧu.no
porsgrunn.no
radoy.no
radøy.no
rakkestad.no
rana.no
ruovat.no
randaberg.no
rauma.no
rendalen.no
rennebu.no
rennesoy.no
rennesøy.no
rindal.no
ringebu.no
ringerike.no
ringsaker.no
rissa.no
risor.no

risør.no
roan.no
rollag.no
rygge.no
ralingen.no
rælingen.no
rodoy.no
rødøy.no
romskog.no
rømskog.no
roros.no
røros.no
rost.no
røst.no
royken.no
røyken.no
royrvik.no
røyrvik.no
rade.no
råde.no
salangen.no
siellak.no
saltdal.no
salat.no
sálát.no
sálat.no
samnanger.no
sande.more-og-romsdal.no
sande.møre-og-romsdal.no
sande.vestfold.no
sandefjord.no
sandnes.no
sandoy.no
sandøy.no
sarpsborg.no
sauda.no
sauherad.no
sel.no
selbu.no
selje.no
seljord.no
sigdal.no
siljan.no
sirdal.no
skaun.no
skedsmo.no
ski.no
skien.no

skiptvet.no
skjervoy.no
skjervøy.no
skierva.no
skiervá.no
skjak.no
skjåk.no
skodje.no
skanland.no
skånland.no
skanit.no
skánit.no
smola.no
smøla.no
snillfjord.no
snasa.no
snåsa.no
snoasa.no
snaase.no
snåase.no
sogndal.no
sokndal.no
sola.no
solund.no
songdalen.no
sortland.no
spydeberg.no
stange.no
stavanger.no
steigen.no
steinkjer.no
stjordal.no
stjørdal.no
stokke.no
stor-elvdal.no
stord.no
stordal.no
storfjord.no
omasvuotna.no
strand.no
stranda.no
stryn.no
sula.no
suldal.no
sund.no
sunndal.no
surnadal.no
sveio.no

svelvik.no
sykkylven.no
sogne.no
søgne.no
somna.no
sømna.no
sondre-land.no
søndre-land.no
sor-aurdal.no
sør-aurdal.no
sor-fron.no
sør-fron.no
sor-odal.no
sør-odal.no
sor-varanger.no
sør-varanger.no
matta-varjjat.no
mátta-várjjat.no
sorfold.no
sørfold.no
sorreisa.no
sørreisa.no
sorum.no
sørum.no
tana.no
deatnu.no
time.no
tingvoll.no
tinn.no
tjeldsund.no
dielddanuorri.no
tjome.no
tjøme.no
tokke.no
tolga.no
torsken.no
tranoy.no
tranøy.no
tromso.no
tromsø.no
tromsa.no
romsa.no
trondheim.no
troandin.no
trysil.no
trana.no
træna.no
trogstad.no

trøgstad.no
tvedestrand.no
tydal.no
tynset.no
tysfjord.no
divtasvuodna.no
divttasvuotna.no
tysnes.no
tysvar.no
tysvær.no
tonsberg.no
tønsberg.no
ullensaker.no
ullensvang.no
ulvik.no
utsira.no
vadso.no
vadsø.no
cahcesuolo.no
áhcesuolo.no
vaksdal.no
valle.no
vang.no
vanylven.no
vardo.no
vardø.no
varggat.no
várggát.no
vefsn.no
vaapste.no
vega.no
vegarshei.no
vegårshei.no
vennesla.no
verdal.no
verran.no
vestby.no
vestnes.no
vestre-slidre.no
vestre-toten.no
vestvagoy.no
vestvågøy.no
vevelstad.no
vik.no
vikna.no
vindafjord.no
volda.no
voss.no

varoy.no
værøy.no
vagan.no
vågan.no
voagat.no
vagsoy.no
vågsøy.no
vaga.no
vågå.no
valer.ostfold.no
våler.østfold.no
valer.hedmark.no
våler.hedmark.no

//
 np : http://www.mos.com.np/register.html
*.np

// nr : http://cenpac.net.nr/dns/index.html
//
 Submitted by registry <technician@cenpac.net.nr>
nr
biz.nr
info.nr
gov.nr
edu.nr
org.nr
net.nr
com.nr

// nu : https://en.wikipedia.org/wiki/.nu
nu

// nz : https://en.wikipedia.org/wiki/.nz
// Submitted by registry <jay@nzrs.net.nz>
nz
ac.nz
co.nz
cri.nz
geek.nz
gen.nz
govt.nz
health.nz
iwi.nz
kiwi.nz
maori.nz
mil.nz
mori.nz

net.nz
org.nz
parliament.nz
school.nz

// om : https://en.wikipedia.org/wiki/.om
om
co.om
com.om
edu.om
gov.om
med.om
museum.om
net.om
org.om
pro.om

// onion : https://tools.ietf.org/html/rfc7686
onion

// org : https://en.wikipedia.org/wiki/.org
org

// pa : http://www.nic.pa/
// Some additional second level "domains" resolve directly as hostnames, such as
// pannet.pa, so we add a rule for "pa".
pa
ac.pa
gob.pa
com.pa
org.pa
sld.pa
edu.pa
net.pa
ing.pa
abo.pa
med.pa
nom.pa

// pe : https://www.nic.pe/InformeFinalComision.pdf
pe
edu.pe
gob.pe
nom.pe
mil.pe
org.pe
com.pe
net.pe

// pf : http://www.gobin.info/domainname/formulaire-pf.pdf
pf
com.pf
org.pf
edu.pf

//
pg : https://en.wikipedia.org/wiki/.pg
*.pg

// ph : http://www.domains.ph/FAQ2.asp
// Submitted by registry <jed@email.com.ph>
ph
com.ph
net.ph
org.ph
gov.ph
edu.ph
ngo.ph
mil.ph
i.ph

// pk : http://pk5.pknic.net.pk/pk5/msgNamepk.PK
pk
com.pk
net.pk
edu.pk
org.pk
fam.pk
biz.pk
web.pk
gov.pk
gob.pk
gok.pk
gon.pk
gop.pk
gos.pk
info.pk

// pl http://www.dns.pl/english/index.html
// Submitted by registry
pl
com.pl
net.pl
org.pl
// pl functional domains (http://www.dns.pl/english/index.html)
aid.pl

agro.pl
atm.pl
auto.pl
biz.pl
edu.pl
gmina.pl
gsm.pl
info.pl
mail.pl
miasta.pl
media.pl
mil.pl
nieruchomosci.pl
nom.pl
pc.pl
powiat.pl
priv.pl
realestate.pl
rel.pl
sex.pl
shop.pl
sklep.pl
sos.pl
szkola.pl
targi.pl
tm.pl
tourism.pl
travel.pl
turystyka.pl
// Government domains
gov.pl
ap.gov.pl
ic.gov.pl
is.gov.pl
us.gov.pl
kmpsp.gov.pl
kppsp.gov.pl
kwpsp.gov.pl
psp.gov.pl
wskr.gov.pl
kwp.gov.pl
mw.gov.pl
ug.gov.pl
um.gov.pl
umig.gov.pl
ugim.gov.pl
upow.gov.pl
uw.gov.pl

starostwo.gov.pl
pa.gov.pl
po.gov.pl
psse.gov.pl
pup.gov.pl
rzgw.gov.pl
sa.gov.pl
so.gov.pl
sr.gov.pl
wsa.gov.pl
sko.gov.pl
uzs.gov.pl
wiih.gov.pl
winb.gov.pl
pinb.gov.pl
wios.gov.pl
witd.gov.pl
wzmiuw.gov.pl
piw.gov.pl
wiw.gov.pl
griw.gov.pl
wif.gov.pl
oum.gov.pl
sdn.gov.pl
zp.gov.pl
uppo.gov.pl
mup.gov.pl
wuoz.gov.pl
konsulat.gov.pl
oirm.gov.pl
//
pl regional domains (http://www.dns.pl/english/index.html)
augustow.pl
babia-gora.pl
bedzin.pl
beskidy.pl
bialowieza.pl
bialystok.pl
bielawa.pl
bieszczady.pl
boleslawiec.pl
bydgoszcz.pl
bytom.pl
cieszyn.pl
czeladz.pl
czest.pl
dlugoleka.pl
elblag.pl

elk.pl
glogow.pl
gniezno.pl
gorlice.pl
grajewo.pl
ilawa.pl
jaworzno.pl
jelenia-gora.pl
jgora.pl
kalisz.pl
kazimierz-dolny.pl
karpacz.pl
kartuzy.pl
kaszuby.pl
katowice.pl
kepno.pl
ketrzyn.pl
klodzko.pl
kobierzyce.pl
kolobrzeg.pl
konin.pl
konskowola.pl
kutno.pl
lapy.pl
lebork.pl
legnica.pl
lezajsk.pl
limanowa.pl
lomza.pl
lowicz.pl
lubin.pl
lukow.pl
malbork.pl
malopolska.pl
mazowsze.pl
mazury.pl
mielec.pl
mielno.pl
mragowo.pl
naklo.pl
nowaruda.pl
nysa.pl
olawa.pl
olecko.pl
olkusz.pl
olsztyn.pl
opoczno.pl
opole.pl

ostroda.pl
ostroleka.pl
ostrowiec.pl
ostrowwlkp.pl
pila.pl
pisz.pl
podhale.pl
podlasie.pl
polkowice.pl
pomorze.pl
pomorskie.pl
prochowice.pl
pruszkow.pl
przeworsk.pl
pulawy.pl
radom.pl
rawa-maz.pl
rybnik.pl
rzeszow.pl
sanok.pl
sejny.pl
slask.pl
slupsk.pl
sosnowiec.pl
stalowa-wola.pl
skoczow.pl
starachowice.pl
stargard.pl
suwalki.pl
swidnica.pl
swiebodzin.pl
swinoujscie.pl
szczecin.pl
szczytno.pl
tarnobrzeg.pl
tgory.pl
turek.pl
tychy.pl
ustka.pl
walbrzych.pl
warmia.pl
warszawa.pl
waw.pl
wegrow.pl
wielun.pl
wlocl.pl
wloclawek.pl
wodzislaw.pl

wolomin.pl
wroclaw.pl
zachpomor.pl
zagan.pl
zarow.pl
zgora.pl
zgorzelec.pl

//
 pm : http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf
pm

// pn : http://www.government.pn/PnRegistry/policies.htm
pn
gov.pn
co.pn
org.pn
edu.pn
net.pn

// post : https://en.wikipedia.org/wiki/.post
post

// pr : http://www.nic.pr/index.asp?f=1
pr
com.pr
net.pr
org.pr
gov.pr
edu.pr
isla.pr
pro.pr
biz.pr
info.pr
name.pr
//
 these aren't mentioned on nic.pr, but on https://en.wikipedia.org/wiki/.pr
est.pr
prof.pr
ac.pr

// pro : http://registry.pro/get-pro
pro
aaa.pro
aca.pro
acct.pro
avocat.pro
bar.pro

cpa.pro
eng.pro
jur.pro
law.pro
med.pro
recht.pro

// ps : https://en.wikipedia.org/wiki/.ps
// http://www.nic.ps/registration/policy.html#reg
ps
edu.ps
gov.ps
sec.ps
plo.ps
com.ps
org.ps
net.ps

// pt : http://online.dns.pt/dns/start_dns
pt
net.pt
gov.pt
org.pt
edu.pt
int.pt
publ.pt
com.pt
nome.pt

// pw : https://en.wikipedia.org/wiki/.pw
pw
co.pw
ne.pw
or.pw
ed.pw
go.pw
belau.pw

// py : http://www.nic.py/pautas.html#seccion_9
// Submitted by registry
py
com.py
coop.py
edu.py
gov.py
mil.py
net.py
org.py

// qa : http://domains.qa/en/
qa
com.qa
edu.qa
gov.qa
mil.qa
name.qa
net.qa
org.qa
sch.qa

// re : http://www.afnic.re/obtenir/chartes/nommage-re/annexe-descriptifs
re
asso.re
com.re
nom.re

// ro : http://www.rotld.ro/
ro
arts.ro
com.ro
firm.ro
info.ro
nom.ro
nt.ro
org.ro
rec.ro
store.ro
tm.ro
www.ro

//
 rs : https://www.rnids.rs/en/domains/national-domains
rs
ac.rs
co.rs
edu.rs
gov.rs
in.rs
org.rs

// ru : https://cctld.ru/files/pdf/docs/en/rules_ru-rf.pdf
// Submitted by George Georgievsky <gug@cctld.ru>
ru

// rw : https://www.ricta.org.rw/sites/default/files/resources/registry_registrar_contract_0.pdf
rw

ac.rw
co.rw
coop.rw
gov.rw
mil.rw
net.rw
org.rw

// sa : http://www.nic.net.sa/
sa
com.sa
net.sa
org.sa
gov.sa
med.sa
pub.sa
edu.sa
sch.sa

// sb : http://www.sbnic.net.sb/
// Submitted by registry <lee.humphries@telekom.com.sb>
sb
com.sb
edu.sb
gov.sb
net.sb
org.sb

// sc : http://www.nic.sc/
sc
com.sc
gov.sc
net.sc
org.sc
edu.sc

// sd : http://www.isoc.sd/sudanic.isoc.sd/billing_pricing.htm
// Submitted by registry <admin@isoc.sd>
sd
com.sd
net.sd
org.sd
edu.sd
med.sd
tv.sd
gov.sd
info.sd

// se : https://en.wikipedia.org/wiki/.se
// Submitted by registry <patrik.wallstrom@iis.se>
se
a.se
ac.se
b.se
bd.se
brand.se
c.se
d.se
e.se
f.se
fh.se
fhsk.se
fhv.se
g.se
h.se
i.se
k.se
komforb.se
kommunalforbund.se
komvux.se
l.se
lanbib.se
m.se
n.se
naturbruksgymn.se
o.se
org.se
p.se
parti.se
pp.se
press.se
r.se
s.se
t.se
tm.se
u.se
w.se
x.se
y.se
z.se

//
sg : http://www.nic.net.sg/page/registration-policies-procedures-and-guidelines
sg
com.sg
net.sg

org.sg
gov.sg
edu.sg
per.sg

// sh : http://www.nic.sh/registrar.html
sh
com.sh
net.sh
gov.sh
org.sh
mil.sh

// si : https://en.wikipedia.org/wiki/.si
si

// sj : No registrations at this time.
// Submitted by registry <jarle@uninett.no>
sj

// sk : https://en.wikipedia.org/wiki/.sk
// list of 2nd level domains ?
sk

// sl : http://www.nic.sl
// Submitted by registry <adam@neoip.com>
sl
com.sl
net.sl
edu.sl
gov.sl
org.sl

// sm : https://en.wikipedia.org/wiki/.sm
sm

// sn : https://en.wikipedia.org/wiki/.sn
sn
art.sn
com.sn
edu.sn
gouv.sn
org.sn
perso.sn
univ.sn

// so : http://sonic.so/policies/
so

com.so
edu.so
gov.so
me.so
net.so
org.so

// sr
 : https://en.wikipedia.org/wiki/.sr
sr

// ss : https://registry.nic.ss/
// Submitted by registry <technical@nic.ss>
ss
biz.ss
com.ss
edu.ss
gov.ss
net.ss
org.ss

// st : http://www.nic.st/html/policyrules/
st
co.st
com.st
consulado.st
edu.st
embaixada.st
gov.st
mil.st
net.st
org.st
principe.st
saotome.st
store.st

// su : https://en.wikipedia.org/wiki/.su
su

// sv : http://www.svnet.org.sv/niveldos.pdf
sv
com.sv
edu.sv
gob.sv
org.sv
red.sv

// sx : https://en.wikipedia.org/wiki/.sx

// Submitted by registry <jcvignes@openregistry.com>
sx
gov.sx

// sy : https://en.wikipedia.org/wiki/.sy
// see also: http://www.gobin.info/domainname/sy.doc
sy
edu.sy
gov.sy
net.sy
mil.sy
com.sy
org.sy

// sz : https://en.wikipedia.org/wiki/.sz
// http://www.sispa.org.sz/
sz
co.sz
ac.sz
org.sz

// tc : https://en.wikipedia.org/wiki/.tc
tc

// td : https://en.wikipedia.org/wiki/.td
td

// tel: https://en.wikipedia.org/wiki/.tel
// http://www.telnic.org/
tel

// tf : https://en.wikipedia.org/wiki/.tf
tf

//
 tg : https://en.wikipedia.org/wiki/.tg
// http://www.nic.tg/
tg

// th : https://en.wikipedia.org/wiki/.th
// Submitted by registry <krit@thains.co.th>
th
ac.th
co.th
go.th
in.th
mi.th
net.th

or.th

// tj : http://www.nic.tj/policy.html
tj
ac.tj
biz.tj
co.tj
com.tj
edu.tj
go.tj
gov.tj
int.tj
mil.tj
name.tj
net.tj
nic.tj
org.tj
test.tj
web.tj

// tk : https://en.wikipedia.org/wiki/.tk
tk

// tl : https://en.wikipedia.org/wiki/.tl
tl
gov.tl

// tm : http://www.nic.tm/local.html
tm
com.tm
co.tm
org.tm
net.tm
nom.tm
gov.tm
mil.tm
edu.tm

// tn : https://en.wikipedia.org/wiki/.tn
// http://whois.ati.tn/
tn
com.tn
ens.tn
fin.tn
gov.tn
ind.tn
intl.tn
nat.tn

net.tn
org.tn
info.tn
perso.tn
tourism.tn
edunet.tn
rnrt.tn
rns.tn
rnu.tn
mincom.tn
agrinet.tn
defense.tn
turen.tn

// to : https://en.wikipedia.org/wiki/.to
// Submitted by registry <egullich@colo.to>
to
com.to
gov.to
net.to
org.to
edu.to
mil.to

// tr : https://nic.tr/
// https://nic.tr/forms/eng/policies.pdf
// https://nic.tr/index.php?USRACTN=PRICELST
tr
av.tr
bbs.tr
bel.tr
biz.tr
com.tr
dr.tr
edu.tr
gen.tr
gov.tr
info.tr
mil.tr
k12.tr
kep.tr
name.tr
net.tr
org.tr
pol.tr
tel.tr
tsk.tr
tv.tr

web.tr
//
Used by Northern Cyprus
nc.tr
// Used by government agencies of Northern Cyprus
gov.nc.tr

// tt : http://www.nic.tt/
tt
co.tt
com.tt
org.tt
net.tt
biz.tt
info.tt
pro.tt
int.tt
coop.tt
jobs.tt
mobi.tt
travel.tt
museum.tt
aero.tt
name.tt
gov.tt
edu.tt

// tv : https://en.wikipedia.org/wiki/.tv
// Not listing any 2LDs as reserved since none seem to exist in practice,
// Wikipedia notwithstanding.
tv

// tw : https://en.wikipedia.org/wiki/.tw
tw
edu.tw
gov.tw
mil.tw
com.tw
net.tw
org.tw
idv.tw
game.tw
ebiz.tw
club.tw
.tw
.tw
.tw

// tz : http://www.tznic.or.tz/index.php/domains
// Submitted by registry <manager@tznic.or.tz>
tz
ac.tz
co.tz
go.tz
hotel.tz
info.tz
me.tz
mil.tz
mobi.tz
ne.tz
or.tz
sc.tz
tv.tz

// ua : https://hostmaster.ua/policy/?ua
// Submitted by registry <dk@cctld.ua>
ua
// ua 2LD
com.ua
edu.ua
gov.ua
in.ua
net.ua
org.ua
//
 ua geographic names
// https://hostmaster.ua/2ld/
cherkassy.ua
cherkasy.ua
chernigov.ua
chernihiv.ua
chernivtsi.ua
chernovtsy.ua
ck.ua
cn.ua
cr.ua
crimea.ua
cv.ua
dn.ua
dnepropetrovsk.ua
dnipropetrovsk.ua
donetsk.ua
dp.ua
if.ua
ivano-frankivsk.ua
kh.ua

kharkiv.ua
kharkov.ua
kherson.ua
khmelnitskiy.ua
khmelnytskyi.ua
kiev.ua
kirovograd.ua
km.ua
kr.ua
krym.ua
ks.ua
kv.ua
kyiv.ua
lg.ua
lt.ua
lugansk.ua
lutsk.ua
lv.ua
lviv.ua
mk.ua
mykolaiv.ua
nikolaev.ua
od.ua
odesa.ua
odessa.ua
pl.ua
poltava.ua
rivne.ua
rovno.ua
rv.ua
sb.ua
sebastopol.ua
sevastopol.ua
sm.ua
sumy.ua
te.ua
ternopil.ua
uz.ua
uzhgorod.ua
vinnica.ua
vinnytsia.ua
vn.ua
volyn.ua
yalta.ua
zaporizhzhe.ua
zaporizhzhia.ua
zhitomir.ua
zhytomyr.ua

zp.ua
zt.ua

// ug : https://www.registry.co.ug/
ug
co.ug
or.ug
ac.ug
sc.ug
go.ug
ne.ug
com.ug
org.ug

// uk : https://en.wikipedia.org/wiki/.uk
// Submitted by registry <Michael.Daly@nominet.org.uk>
uk
ac.uk
co.uk
gov.uk
ltd.uk
me.uk
net.uk
nhs.uk
org.uk
plc.uk
police.uk
*.sch.uk

//
 us : https://en.wikipedia.org/wiki/.us
us
dni.us
fed.us
isa.us
kids.us
nsn.us
// us geographic names
ak.us
al.us
ar.us
as.us
az.us
ca.us
co.us
ct.us
dc.us
de.us

fl.us
ga.us
gu.us
hi.us
ia.us
id.us
il.us
in.us
ks.us
ky.us
la.us
ma.us
md.us
me.us
mi.us
mn.us
mo.us
ms.us
mt.us
nc.us
nd.us
ne.us
nh.us
nj.us
nm.us
nv.us
ny.us
oh.us
ok.us
or.us
pa.us
pr.us
ri.us
sc.us
sd.us
tn.us
tx.us
ut.us
vi.us
vt.us
va.us
wa.us
wi.us
wv.us
wy.us
// The registrar notes several more specific domains available in each state,
// such as state.*.us, dst.*.us, etc., but resolution of these is somewhat
// haphazard; in some states these domains resolve as addresses, while in others

// only subdomains are available, or even nothing at all. We include the
// most common ones where it's clear that different sites are different
// entities.
k12.ak.us
k12.al.us
k12.ar.us
k12.as.us
k12.az.us
k12.ca.us
k12.co.us
k12.ct.us
k12.dc.us
k12.de.us
k12.fl.us
k12.ga.us
k12.gu.us
// k12.hi.us Bug 614565
 - Hawaii has a state-wide DOE login
k12.ia.us
k12.id.us
k12.il.us
k12.in.us
k12.ks.us
k12.ky.us
k12.la.us
k12.ma.us
k12.md.us
k12.me.us
k12.mi.us
k12.mn.us
k12.mo.us
k12.ms.us
k12.mt.us
k12.nc.us
// k12.nd.us Bug 1028347 - Removed at request of Travis Rosso <trossow@nd.gov>
k12.ne.us
k12.nh.us
k12.nj.us
k12.nm.us
k12.nv.us
k12.ny.us
k12.oh.us
k12.ok.us
k12.or.us
k12.pa.us
k12.pr.us
// k12.ri.us Removed at request of Kim Cournoyer <netsupport@staff.ri.net>
k12.sc.us

// k12.sd.us Bug 934131 - Removed at request of James Booze <James.Booze@k12.sd.us>
k12.tn.us
k12.tx.us
k12.ut.us
k12.vi.us
k12.vt.us
k12.va.us
k12.wa.us
k12.wi.us
// k12.wv.us Bug 947705 - Removed at request of Verne Britton <verne@wvnet.edu>
k12.wy.us
cc.ak.us
cc.al.us
cc.ar.us
cc.as.us
cc.az.us
cc.ca.us
cc.co.us
cc.ct.us
cc.dc.us
cc.de.us
cc.fl.us
cc.ga.us
cc.gu.us
cc.hi.us
cc.ia.us
cc.id.us
cc.il.us
cc.in.us
cc.ks.us
cc.ky.us
cc.la.us
cc.ma.us
cc.md.us
cc.me.us
cc.mi.us
cc.mn.us
cc.mo.us
cc.ms.us
cc.mt.us
cc.nc.us
cc.nd.us
cc.ne.us
cc.nh.us
cc.nj.us
cc.nm.us
cc.nv.us
cc.ny.us

cc.oh.us
cc.ok.us
cc.or.us
cc.pa.us
cc.pr.us
cc.ri.us
cc.sc.us
cc.sd.us
cc.tn.us
cc.tx.us
cc.ut.us
cc.vi.us
cc.vt.us
cc.va.us
cc.wa.us
cc.wi.us
cc.wv.us
cc.wy.us
lib.ak.us
lib.al.us
lib.ar.us
lib.as.us
lib.az.us
lib.ca.us
lib.co.us
lib.ct.us
lib.dc.us
//
lib.de.us Issue #243 - Moved to Private section at request of Ed Moore <Ed.Moore@lib.de.us>
lib.fl.us
lib.ga.us
lib.gu.us
lib.hi.us
lib.ia.us
lib.id.us
lib.il.us
lib.in.us
lib.ks.us
lib.ky.us
lib.la.us
lib.ma.us
lib.md.us
lib.me.us
lib.mi.us
lib.mn.us
lib.mo.us
lib.ms.us
lib.mt.us

lib.nc.us
lib.nd.us
lib.ne.us
lib.nh.us
lib.nj.us
lib.nm.us
lib.nv.us
lib.ny.us
lib.oh.us
lib.ok.us
lib.or.us
lib.pa.us
lib.pr.us
lib.ri.us
lib.sc.us
lib.sd.us
lib.tn.us
lib.tx.us
lib.ut.us
lib.vi.us
lib.vt.us
lib.va.us
lib.wa.us
lib.wi.us
// lib.wv.us Bug 941670 - Removed at request of Larry W Arnold <arnold@wvlc.lib.wv.us>
lib.wy.us
// k12.ma.us contains school districts in Massachusetts. The 4LDs
 are
// managed independently except for private (PVT), charter (CHTR) and
// parochial (PAROCH) schools. Those are delegated directly to the
// 5LD operators.   <k12-ma-hostmaster _ at _ rsuc.gweep.net>
pvt.k12.ma.us
chtr.k12.ma.us
paroch.k12.ma.us
// Merit Network, Inc. maintains the registry for =~ /(k12|cc|lib).mi.us/ and the following
//   see also: http://domreg.merit.edu
//   see also: whois -h whois.domreg.merit.edu help
ann-arbor.mi.us
cog.mi.us
dst.mi.us
eaton.mi.us
gen.mi.us
mus.mi.us
tec.mi.us
washtenaw.mi.us

// uy : http://www.nic.org.uy/
uy

com.uy
edu.uy
gub.uy
mil.uy
net.uy
org.uy

// uz : http://www.reg.uz/
uz
co.uz
com.uz
net.uz
org.uz

// va : https://en.wikipedia.org/wiki/.va
va

// vc : https://en.wikipedia.org/wiki/.vc
// Submitted by registry <kshah@ca.afilias.info>
vc
com.vc
net.vc
org.vc
gov.vc
mil.vc
edu.vc

// ve : https://registro.nic.ve/
// Submitted by registry
ve
arts.ve
co.ve
com.ve
e12.ve
edu.ve
firm.ve
gob.ve
gov.ve
info.ve
int.ve
mil.ve
net.ve
org.ve
rec.ve
store.ve
tec.ve
web.ve

//
 vg : https://en.wikipedia.org/wiki/.vg
vg

// vi : http://www.nic.vi/newdomainform.htm
// http://www.nic.vi/Domain_Rules/body_domain_rules.html indicates some other
// TLDs are "reserved", such as edu.vi and gov.vi, but doesn't actually say they
// are available for registration (which they do not seem to be).
vi
co.vi
com.vi
k12.vi
net.vi
org.vi

// vn : https://www.dot.vn/vnnic/vnnic/domainregistration.jsp
vn
com.vn
net.vn
org.vn
edu.vn
gov.vn
int.vn
ac.vn
biz.vn
info.vn
name.vn
pro.vn
health.vn

// vu : https://en.wikipedia.org/wiki/.vu
// http://www.vunic.vu/
vu
com.vu
edu.vu
net.vu
org.vu

// wf : http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf
wf

// ws : https://en.wikipedia.org/wiki/.ws
// http://samoanic.ws/index.dhtml
ws
com.ws
net.ws
org.ws
gov.ws

edu.ws

// yt : http://www.afnic.fr/medias/documents/AFNIC-naming-policy2012.pdf
yt

// IDN ccTLDs
// When submitting patches, please maintain a sort by ISO 3166 ccTLD, then
//
 U-label, and follow this format:
// // A-Label ("<Latin renderings>", <language name>[, variant info]) : <ISO 3166 ccTLD>
// // [sponsoring org]
// U-Label

// xn--mgbaam7a8h ("Emerat", Arabic) : AE
// http://nic.ae/english/arabicdomain/rules.jsp

// xn--y9a3aq ("hye", Armenian) : AM
// ISOC AM (operated by .am Registry)

// xn--54b7fta0cc ("Bangla", Bangla) : BD

// xn--90ae ("bg", Bulgarian) : BG

// xn--90ais ("bel", Belarusian/Russian Cyrillic) : BY
// Operated by .by registry

// xn--fiqs8s ("Zhongguo/China", Chinese, Simplified) : CN
// CNNIC
// http://cnnic.cn/html/Dir/2005/10/11/3218.htm

// xn--fiqz9s ("Zhongguo/China", Chinese, Traditional) : CN
// CNNIC
// http://cnnic.cn/html/Dir/2005/10/11/3218.htm

// xn--lgbbat1ad8j ("Algeria/Al Jazair", Arabic) : DZ

// xn--wgbh1c ("Egypt/Masr", Arabic) : EG
// http://www.dotmasr.eg/

// xn--e1a4c ("eu", Cyrillic) : EU
// https://eurid.eu

// xn--qxa6a ("eu", Greek) : EU
// https://eurid.eu

//
 xn--mgbah1a3hjkrd ("Mauritania", Arabic) : MR

// xn--node ("ge", Georgian Mkhedruli) : GE

// xn--qxam ("el", Greek) : GR
// Hellenic Ministry of Infrastructure, Transport, and Networks

// xn--j6w193g ("Hong Kong", Chinese) : HK
// https://www.hkirc.hk
// Submitted by registry <hk.tech@hkirc.hk>
// https://www.hkirc.hk/content.jsp?id=30#!/34

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// xn--2scrj9c ("Bharat", Kannada) : IN
// India

// xn--3hcrj9c ("Bharat", Oriya) : IN
// India

// xn--45br5cyl ("Bharatam", Assamese) : IN
// India

// xn--h2breg3eve ("Bharatam", Sanskrit) : IN
// India

// xn--h2brj9c8c ("Bharot", Santali) : IN

// India

// xn--mgbgu82a ("Bharat", Sindhi) : IN
// India

// xn--rvc1e0am3e ("Bharatam", Malayalam) : IN
// India

// xn--h2brj9c ("Bharat", Devanagari) : IN
// India

// xn--mgbbh1a ("Bharat", Kashmiri) : IN
// India

// xn--mgbbh1a71e ("Bharat", Arabic) : IN
// India

// xn--fpcrj9c3d
("Bharat", Telugu) : IN
// India

// xn--gecrj9c ("Bharat", Gujarati) : IN
// India

// xn--s9brj9c ("Bharat", Gurmukhi) : IN
// India

// xn--45brj9c ("Bharat", Bengali) : IN
// India

// xn--xkc2dl3a5ee0h ("India", Tamil) : IN
// India

// xn--mgba3a4f16a ("Iran", Persian) : IR

// xn--mgba3a4fra ("Iran", Arabic) : IR

// xn--mgbtx2b ("Iraq", Arabic) : IQ
// Communications and Media Commission

// xn--mgbayh7gpa ("al-Ordon", Arabic) : JO
// National Information Technology Center (NITC)
// Royal Scientific Society, Al-Jubeiha

// xn--3e0b707e ("Republic of Korea", Hangul) : KR

// xn--80ao21a ("Kaz", Kazakh) : KZ

// xn--fzc2c9e2c ("Lanka", Sinhalese-Sinhala) : LK
// https://nic.lk

// xn--xkc2al3hye2a ("Ilangai", Tamil) : LK
// https://nic.lk

// xn--mgbc0a9azcg ("Morocco/al-Maghrib", Arabic) : MA

// xn--d1alf ("mkd", Macedonian) : MK
// MARnet

// xn--l1acc ("mon", Mongolian) : MN

// xn--mix891f
("Macao", Chinese, Traditional) : MO
// MONIC / HNET Asia (Registry Operator for .mo)

// xn--mix082f ("Macao", Chinese, Simplified) : MO

// xn--mgbx4cd0ab ("Malaysia", Malay) : MY

// xn--mgb9awbf ("Oman", Arabic) : OM

// xn--mgbai9azgqp6j ("Pakistan", Urdu/Arabic) : PK

// xn--mgbai9a5eva00b ("Pakistan", Urdu/Arabic, variant) : PK

// xn--ygbi2ammx ("Falasteen", Arabic) : PS
// The Palestinian National Internet Naming Authority (PNINA)
// http://www.pnina.ps

// xn--90a3ac ("srb", Cyrillic) : RS
// https://www.rnids.rs/en/domains/national-domains

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// xn--p1ai ("rf", Russian-Cyrillic) : RU
// https://cctld.ru/files/pdf/docs/en/rules_ru-rf.pdf
// Submitted by George Georgievsky <gug@cctld.ru>

// xn--wgbl6a ("Qatar", Arabic) : QA
// http://www.ict.gov.qa/

// xn--mgberp4a5d4ar ("AlSaudiah", Arabic) : SA
// http://www.nic.net.sa/

// xn--mgberp4a5d4a87g ("AlSaudiah", Arabic,
variant) : SA

// xn--mgbqly7c0a67fbc ("AlSaudiah", Arabic, variant) : SA

// xn--mgbqly7cvafr ("AlSaudiah", Arabic, variant) : SA

// xn--mgbpl2fh ("sudan", Arabic) : SD
// Operated by .sd registry

// xn--yfro4i67o Singapore ("Singapore", Chinese) : SG

// xn--clchc0ea0b2g2a9gcd ("Singapore", Tamil) : SG

// xn--ogbpf8fl ("Syria", Arabic) : SY

// xn--mgbtf8fl ("Syria", Arabic, variant) : SY

// xn--o3cw4h ("Thai", Thai) : TH
// http://www.thnic.co.th

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// xn--pgbs0dh ("Tunisia", Arabic) : TN
// http://nic.tn

// xn--kpry57d ("Taiwan", Chinese, Traditional) : TW
// http://www.twnic.net/english/dn/dn_07a.htm

// xn--kprw13d ("Taiwan", Chinese, Simplified) : TW
// http://www.twnic.net/english/dn/dn_07a.htm

// xn--nnx388a ("Taiwan", Chinese, variant) : TW

// xn--j1amh ("ukr", Cyrillic) : UA

// xn--mgb2ddes ("AlYemen", Arabic) : YE

//
xxx : http://icmregistry.com
xxx

// ye : http://www.y.net.ye/services/domain_name.htm
*.ye

// za : https://www.zadna.org.za/content/page/domain-information/
ac.za
agric.za
alt.za
co.za
edu.za
gov.za
grondar.za
law.za
mil.za
net.za
ngo.za
nic.za
nis.za
nom.za
org.za
school.za
tm.za
web.za

// zm : https://zicta.zm/
// Submitted by registry <info@zicta.zm>
zm
ac.zm
biz.zm
co.zm
com.zm
edu.zm
gov.zm
info.zm
mil.zm
net.zm
org.zm
sch.zm

// zw : https://www.potraz.gov.zw/
// Confirmed by registry <bmtengwa@potraz.gov.zw> 2017-01-25
zw
ac.zw
co.zw
gov.zw
mil.zw
org.zw

// newGTLDs

// List of new gTLDs imported from https://www.icann.org/resources/registries/gtlds/v2/gtlds.json on 2020-10-28T17:55:28Z
// This list is auto-generated, don't edit it manually.
// aaa : 2015-02-26 American Automobile Association, Inc.
aaa

// aarp : 2015-05-21 AARP
aarp

// abarth : 2015-07-30 Fiat Chrysler Automobiles N.V.
abarth

// abb : 2014-10-24 ABB Ltd
abb

// abbott : 2014-07-24 Abbott Laboratories,
Inc.
abbott

// abbvie : 2015-07-30 AbbVie Inc.
abbvie

// abc : 2015-07-30 Disney Enterprises, Inc.
abc

// able : 2015-06-25 Able Inc.
able

// abogado : 2014-04-24 Minds + Machines Group Limited
abogado

// abudhabi : 2015-07-30 Abu Dhabi Systems and Information Centre
abudhabi

// academy : 2013-11-07 Binky Moon, LLC
academy

// accenture : 2014-08-15 Accenture plc
accenture

// accountant : 2014-11-20 dot Accountant Limited
accountant

// accountants : 2014-03-20 Binky Moon, LLC
accountants

// aco : 2015-01-08 ACO Severin Ahlmann GmbH & Co. KG
aco

// actor : 2013-12-12 Dog Beach, LLC
actor

// adac : 2015-07-16 Allgemeiner Deutscher Automobil-Club e.V. (ADAC)
adac

// ads : 2014-12-04 Charleston Road Registry Inc.
ads

// adult : 2014-10-16 ICM Registry AD LLC
adult

// aeg : 2015-03-19 Aktiebolaget Electrolux
aeg

// aetna : 2015-05-21 Aetna Life Insurance Company
aetna

// afamilycompany : 2015-07-23 Johnson Shareholdings, Inc.
afamilycompany

// afl : 2014-10-02 Australian
Football League
afl

// africa : 2014-03-24 ZA Central Registry NPC trading as Registry.Africa
africa

// agakhan : 2015-04-23 Fondation Aga Khan (Aga Khan Foundation)
agakhan

// agency : 2013-11-14 Binky Moon, LLC
agency

// aig : 2014-12-18 American International Group, Inc.
aig

// airbus : 2015-07-30 Airbus S.A.S.
airbus

// airforce : 2014-03-06 Dog Beach, LLC
airforce

// airtel : 2014-10-24 Bharti Airtel Limited
airtel

// akdn : 2015-04-23 Fondation Aga Khan (Aga Khan Foundation)
akdn

// alfaromeo : 2015-07-31 Fiat Chrysler Automobiles N.V.
alfaromeo

// alibaba : 2015-01-15 Alibaba Group Holding Limited
alibaba

// alipay : 2015-01-15 Alibaba Group Holding Limited
alipay

// allfinanz : 2014-07-03 Allfinanz Deutsche Vermögensberatung Aktiengesellschaft
allfinanz

// allstate : 2015-07-31 Allstate Fire and Casualty Insurance Company
allstate

// ally : 2015-06-18 Ally Financial Inc.
ally

// alsace : 2014-07-02 Region Grand Est
alsace

// alstom : 2015-07-30 ALSTOM
alstom

//
amazon : 2019-12-19 Amazon Registry Services, Inc.
amazon

// americanexpress : 2015-07-31 American Express Travel Related Services Company, Inc.
americanexpress

// americanfamily : 2015-07-23 AmFam, Inc.
americanfamily

// amex : 2015-07-31 American Express Travel Related Services Company, Inc.
amex

// amfam : 2015-07-23 AmFam, Inc.
amfam

// amica : 2015-05-28 Amica Mutual Insurance Company
amica

// amsterdam : 2014-07-24 Gemeente Amsterdam

amsterdam

// analytics : 2014-12-18 Campus IP LLC
analytics

// android : 2014-08-07 Charleston Road Registry Inc.
android

// anquan : 2015-01-08 Beijing Qihu Keji Co., Ltd.
anquan

// anz : 2015-07-31 Australia and New Zealand Banking Group Limited
anz

// aol : 2015-09-17 Oath Inc.
aol

// apartments : 2014-12-11 Binky Moon, LLC
apartments

// app : 2015-05-14 Charleston Road Registry Inc.
app

// apple : 2015-05-14 Apple Inc.
apple

// aquarelle : 2014-07-24 Aquarelle.com
aquarelle

// arab : 2015-11-12 League of Arab States
arab

// aramco
: 2014-11-20 Aramco Services Company
aramco

// archi : 2014-02-06 Afilias Limited
archi

// army : 2014-03-06 Dog Beach, LLC
army

// art : 2016-03-24 UK Creative Ideas Limited
art

// arte : 2014-12-11 Association Relative à la Télévision Européenne G.E.I.E.
arte

// asda : 2015-07-31 Wal-Mart Stores, Inc.
asda

// associates : 2014-03-06 Binky Moon, LLC
associates

// athleta : 2015-07-30 The Gap, Inc.
athleta

// attorney : 2014-03-20 Dog Beach, LLC
attorney

// auction : 2014-03-20 Dog Beach, LLC
auction

// audi : 2015-05-21 AUDI Aktiengesellschaft
audi

// audible : 2015-06-25 Amazon Registry Services, Inc.
audible

// audio : 2014-03-20 UNR Corp.
audio

// auspost : 2015-08-13 Australian Postal Corporation
auspost

// author : 2014-12-18 Amazon Registry Services, Inc.
author

// auto : 2014-11-13 XYZ.COM LLC
auto

// autos : 2014-01-09 XYZ.COM LLC
autos

// avianca : 2015-01-08 Avianca Holdings S.A.
avianca

// aws : 2015-06-25 Amazon Registry Services, Inc.
aws

// axa : 2013-12-19
AXA SA
axa

// azure : 2014-12-18 Microsoft Corporation
azure

// baby : 2015-04-09 XYZ.COM LLC
baby

// baidu : 2015-01-08 Baidu, Inc.
baidu

// banamex : 2015-07-30 Citigroup Inc.
banamex

// bananarepublic : 2015-07-31 The Gap, Inc.
bananarepublic

// band : 2014-06-12 Dog Beach, LLC
band

// bank : 2014-09-25 fTLD Registry Services LLC
bank

// bar : 2013-12-12 Punto 2012 Sociedad Anonima Promotora de Inversion de Capital Variable
bar

// barcelona : 2014-07-24 Municipi de Barcelona
barcelona

// barclaycard : 2014-11-20 Barclays Bank PLC
barclaycard

// barclays : 2014-11-20 Barclays Bank PLC
barclays

// barefoot : 2015-06-11 Gallo Vineyards, Inc.
barefoot

// bargains : 2013-11-14 Binky Moon, LLC
bargains

// baseball : 2015-10-29 MLB Advanced Media DH, LLC
baseball

// basketball : 2015-08-20 Fédération Internationale de Basketball (FIBA)
basketball

// bauhaus : 2014-04-17 Werkhaus GmbH
bauhaus

// bayern : 2014-01-23 Bayern Connect GmbH
bayern

// bbc : 2014-12-18 British
Broadcasting Corporation
bbc

// bbt : 2015-07-23 BB&T Corporation
bbt

// bbva : 2014-10-02 BANCO BILBAO VIZCAYA ARGENTARIA, S.A.
bbva

// bcg : 2015-04-02 The Boston Consulting Group, Inc.
bcg

// bcn : 2014-07-24 Municipi de Barcelona
bcn

// beats : 2015-05-14 Beats Electronics, LLC
beats

// beauty : 2015-12-03 XYZ.COM LLC
beauty

// beer : 2014-01-09 Minds + Machines Group Limited
beer

// bentley : 2014-12-18 Bentley Motors Limited
bentley

// berlin : 2013-10-31 dotBERLIN GmbH & Co. KG
berlin

// best : 2013-12-19 BestTLD Pty Ltd
best

// bestbuy : 2015-07-31 BBY Solutions, Inc.
bestbuy

// bet : 2015-05-07 Afilias Limited
bet

// bharti : 2014-01-09 Bharti Enterprises (Holding) Private Limited
bharti

// bible : 2014-06-19 American Bible Society
bible

// bid : 2013-12-19 dot Bid Limited

bid

// bike : 2013-08-27 Binky Moon, LLC
bike

// bing : 2014-12-18 Microsoft Corporation
bing

// bingo : 2014-12-04 Binky Moon, LLC
bingo

// bio : 2014-03-06 Afilias Limited
bio

//
black : 2014-01-16 Afilias Limited
black

// blackfriday : 2014-01-16 UNR Corp.
blackfriday

// blockbuster : 2015-07-30 Dish DBS Corporation
blockbuster

// blog : 2015-05-14 Knock Knock WHOIS There, LLC
blog

// bloomberg : 2014-07-17 Bloomberg IP Holdings LLC
bloomberg

// blue : 2013-11-07 Afilias Limited
blue

// bms : 2014-10-30 Bristol-Myers Squibb Company
bms

// bmw : 2014-01-09 Bayerische Motoren Werke Aktiengesellschaft
bmw

// bnpparibas : 2014-05-29 BNP Paribas
bnpparibas

// boats : 2014-12-04 XYZ.COM LLC
boats

// boehringer : 2015-07-09 Boehringer Ingelheim International GmbH
boehringer

// bofa : 2015-07-31 Bank of America Corporation
bofa

// bom : 2014-10-16 Núcleo de Informação e Coordenação do Ponto BR - NIC.br
bom

// bond : 2014-06-05 ShortDot SA
bond

// boo : 2014-01-30 Charleston Road Registry Inc.
boo

// book : 2015-08-27 Amazon Registry Services, Inc.
book

// booking : 2015-07-16 Booking.com B.V.
booking

// bosch : 2015-06-18 Robert Bosch GMBH
bosch

// bostik
: 2015-05-28 Bostik SA
bostik

// boston : 2015-12-10 Boston TLD Management, LLC
boston

// bot : 2014-12-18 Amazon Registry Services, Inc.
bot

// boutique : 2013-11-14 Binky Moon, LLC
boutique

// box : 2015-11-12 Intercap Registry Inc.
box

// bradesco : 2014-12-18 Banco Bradesco S.A.
bradesco

// bridgestone : 2014-12-18 Bridgestone Corporation
bridgestone

// broadway : 2014-12-22 Celebrate Broadway, Inc.
broadway

// broker : 2014-12-11 Dotbroker Registry Limited
broker

// brother : 2015-01-29 Brother Industries, Ltd.
brother

// brussels : 2014-02-06 DNS.be vzw
brussels

// budapest : 2013-11-21 Minds + Machines Group Limited
budapest

// bugatti : 2015-07-23 Bugatti International SA
bugatti

// build : 2013-11-07 Plan Bee LLC
build

// builders : 2013-11-07 Binky Moon, LLC
builders

// business : 2013-11-07 Binky Moon, LLC
business

// buy : 2014-12-18 Amazon Registry Services, Inc.
buy

// buzz : 2013-10-02 DOTSTRATEGY CO.
buzz

// bzh : 2014-02-27 Association www.bzh
bzh

//
cab : 2013-10-24 Binky Moon, LLC
cab

// cafe : 2015-02-11 Binky Moon, LLC
cafe

// cal : 2014-07-24 Charleston Road Registry Inc.
cal

// call : 2014-12-18 Amazon Registry Services, Inc.
call

// calvinklein : 2015-07-30 PVH gTLD Holdings LLC
calvinklein

// cam : 2016-04-21 AC Webconnecting Holding B.V.

cam

// camera : 2013-08-27 Binky Moon, LLC
camera

// camp : 2013-11-07 Binky Moon, LLC
camp

// cancerresearch : 2014-05-15 Australian Cancer Research Foundation
cancerresearch

// canon : 2014-09-12 Canon Inc.
canon

// capetown : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry
capetown

// capital : 2014-03-06 Binky Moon, LLC
capital

// capitalone : 2015-08-06 Capital One Financial Corporation
capitalone

// car : 2015-01-22 XYZ.COM LLC
car

// caravan : 2013-12-12 Caravan International, Inc.
caravan

// cards : 2013-12-05 Binky Moon, LLC
cards

// care : 2014-03-06 Binky Moon, LLC
care

// career : 2013-10-09 dotCareer LLC
career

// careers : 2013-10-02
Binky Moon, LLC
careers

// cars : 2014-11-13 XYZ.COM LLC
cars

// casa : 2013-11-21 Minds + Machines Group Limited
casa

// case : 2015-09-03 CNH Industrial N.V.
case

// caseih : 2015-09-03 CNH Industrial N.V.
caseih

// cash : 2014-03-06 Binky Moon, LLC
cash

// casino : 2014-12-18 Binky Moon, LLC
casino

// catering : 2013-12-05 Binky Moon, LLC
catering

// catholic : 2015-10-21 Pontificium Consilium de Comunicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)
catholic

// cba : 2014-06-26 COMMONWEALTH BANK OF AUSTRALIA
cba

// cbn : 2014-08-22 The Christian Broadcasting Network, Inc.
cbn

// cbre : 2015-07-02 CBRE, Inc.
cbre

// cbs : 2015-08-06 CBS Domains Inc.
cbs

// ceb : 2015-04-09 The Corporate Executive Board Company
ceb

// center : 2013-11-07 Binky Moon, LLC
center

// ceo : 2013-11-07 CEOTLD Pty Ltd
ceo

// cern : 2014-06-05 European Organization for Nuclear Research ("CERN")
cern

// cfa : 2014-08-28 CFA Institute
cfa

// cfd : 2014-12-11 DotCFD

Registry Limited
cfd

// chanel : 2015-04-09 Chanel International B.V.
chanel

// channel : 2014-05-08 Charleston Road Registry Inc.
channel

// charity : 2018-04-11 Binky Moon, LLC
charity

// chase : 2015-04-30 JPMorgan Chase Bank, National Association
chase

// chat : 2014-12-04 Binky Moon, LLC
chat

// cheap : 2013-11-14 Binky Moon, LLC
cheap

// chintai : 2015-06-11 CHINTAI Corporation
chintai

// christmas : 2013-11-21 UNR Corp.
christmas

// chrome : 2014-07-24 Charleston Road Registry Inc.
chrome

// church : 2014-02-06 Binky Moon, LLC
church

// cipriani : 2015-02-19 Hotel Cipriani Srl
cipriani

// circle : 2014-12-18 Amazon Registry Services, Inc.
circle

// cisco : 2014-12-22 Cisco Technology, Inc.
cisco

// citadel : 2015-07-23 Citadel Domain LLC
citadel

// citi : 2015-07-30 Citigroup Inc.
citi

// citic : 2014-01-09 CITIC Group Corporation
citic

// city : 2014-05-29 Binky Moon, LLC
city

// cityeats : 2014-12-11 Lifestyle Domain Holdings, Inc.
cityeats

// claims : 2014-03-20
Binky Moon, LLC
claims

// cleaning : 2013-12-05 Binky Moon, LLC
cleaning

// click : 2014-06-05 UNR Corp.
click

// clinic : 2014-03-20 Binky Moon, LLC
clinic

// clinique : 2015-10-01 The Estée Lauder Companies Inc.
clinique

// clothing : 2013-08-27 Binky Moon, LLC
clothing

// cloud : 2015-04-16 Aruba PEC S.p.A.
cloud

// club : 2013-11-08 .CLUB DOMAINS, LLC
club

// clubmed : 2015-06-25 Club Méditerranée S.A.
clubmed

// coach : 2014-10-09 Binky Moon, LLC
coach

// codes : 2013-10-31 Binky Moon, LLC
codes

// coffee : 2013-10-17 Binky Moon, LLC
coffee

// college : 2014-01-16 XYZ.COM LLC
college

// cologne : 2014-02-05 dotKoeln GmbH
cologne

// comcast : 2015-07-23 Comcast IP Holdings I, LLC
comcast

// commbank : 2014-06-26 COMMONWEALTH BANK OF AUSTRALIA
commbank

// community : 2013-12-05 Binky Moon, LLC
community

// company : 2013-11-07 Binky Moon, LLC
company

// compare : 2015-10-08 Registry Services, LLC
compare

// computer : 2013-10-24 Binky Moon, LLC
computer

//
comsec : 2015-01-08 VeriSign, Inc.
comsec

// condos : 2013-12-05 Binky Moon, LLC
condos

// construction : 2013-09-16 Binky Moon, LLC
construction

// consulting : 2013-12-05 Dog Beach, LLC
consulting

// contact : 2015-01-08 Dog Beach, LLC
contact

// contractors : 2013-09-10 Binky Moon, LLC
contractors

// cooking : 2013-11-21 Minds + Machines Group Limited
cooking

// cookingchannel : 2015-07-02 Lifestyle Domain Holdings, Inc.
cookingchannel

// cool : 2013-11-14 Binky Moon, LLC

cool

// corsica : 2014-09-25 Collectivité de Corse
corsica

// country : 2013-12-19 DotCountry LLC
country

// coupon : 2015-02-26 Amazon Registry Services, Inc.
coupon

// coupons : 2015-03-26 Binky Moon, LLC
coupons

// courses : 2014-12-04 OPEN UNIVERSITIES AUSTRALIA PTY LTD
courses

// cpa : 2019-06-10 American Institute of Certified Public Accountants
cpa

// credit : 2014-03-20 Binky Moon, LLC
credit

// creditcard : 2014-03-20 Binky Moon, LLC
creditcard

// creditunion : 2015-01-22 CUNA Performance
Resources, LLC
creditunion

// cricket : 2014-10-09 dot Cricket Limited
cricket

// crown : 2014-10-24 Crown Equipment Corporation
crown

// crs : 2014-04-03 Federated Co-operatives Limited
crs

// cruise : 2015-12-10 Viking River Cruises (Bermuda) Ltd.
cruise

// cruises : 2013-12-05 Binky Moon, LLC
cruises

// csc : 2014-09-25 Alliance-One Services, Inc.
csc

// cuisinella : 2014-04-03 SCHMIDT GROUPE S.A.S.
cuisinella

// cymru : 2014-05-08 Nominet UK
cymru

// cyou : 2015-01-22 ShortDot SA
cyou

// dabur : 2014-02-06 Dabur India Limited
dabur

// dad : 2014-01-23 Charleston Road Registry Inc.
dad

// dance : 2013-10-24 Dog Beach, LLC
dance

// data : 2016-06-02 Dish DBS Corporation
data

// date : 2014-11-20 dot Date Limited
date

// dating : 2013-12-05 Binky Moon, LLC
dating

// datsun : 2014-03-27 NISSAN MOTOR CO., LTD.
datsun

// day : 2014-01-30 Charleston Road Registry Inc.
day

// dclk : 2014-11-20 Charleston Road Registry Inc.
dclk

// dds : 2015-05-07 Minds + Machines Group
Limited
dds

// deal : 2015-06-25 Amazon Registry Services, Inc.
deal

// dealer : 2014-12-22 Intercap Registry Inc.
dealer

// deals : 2014-05-22 Binky Moon, LLC
deals

// degree : 2014-03-06 Dog Beach, LLC
degree

// delivery : 2014-09-11 Binky Moon, LLC
delivery

// dell : 2014-10-24 Dell Inc.
dell

// deloitte : 2015-07-31 Deloitte Touche Tohmatsu
deloitte

// delta : 2015-02-19 Delta Air Lines, Inc.
delta

// democrat : 2013-10-24 Dog Beach, LLC
democrat

// dental : 2014-03-20 Binky Moon, LLC
dental

// dentist : 2014-03-20 Dog Beach, LLC
dentist

// desi : 2013-11-14 Desi Networks LLC
desi

// design : 2014-11-07 Top Level Design, LLC
design

// dev : 2014-10-16 Charleston Road Registry Inc.
dev

// dhl : 2015-07-23 Deutsche Post AG
dhl

// diamonds : 2013-09-22 Binky Moon, LLC
diamonds

// diet : 2014-06-26 UNR Corp.
diet

// digital : 2014-03-06 Binky Moon, LLC
digital

// direct : 2014-04-10 Binky Moon, LLC
direct

// directory : 2013-09-20 Binky Moon, LLC
directory

// discount
 : 2014-03-06 Binky Moon, LLC
discount

// discover : 2015-07-23 Discover Financial Services
discover

// dish : 2015-07-30 Dish DBS Corporation
dish

// diy : 2015-11-05 Lifestyle Domain Holdings, Inc.
diy

// dnp : 2013-12-13 Dai Nippon Printing Co., Ltd.
dnp

// docs : 2014-10-16 Charleston Road Registry Inc.
docs

// doctor : 2016-06-02 Binky Moon, LLC
doctor

// dog : 2014-12-04 Binky Moon, LLC
dog

// domains : 2013-10-17 Binky Moon, LLC
domains

// dot : 2015-05-21 Dish DBS Corporation
dot

// download : 2014-11-20 dot Support Limited
download

// drive : 2015-03-05 Charleston Road Registry Inc.
drive

// dtv : 2015-06-04 Dish DBS Corporation
dtv

// dubai : 2015-01-01 Dubai Smart Government Department
dubai

// duck : 2015-07-23 Johnson Shareholdings, Inc.

duck

// dunlop : 2015-07-02 The Goodyear Tire & Rubber Company
dunlop

// dupont : 2015-06-25 E. I. du Pont de Nemours and Company
dupont

// durban : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry
durban

//
dvag : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
dvag

// dvr : 2016-05-26 DISH Technologies L.L.C.
dvr

// earth : 2014-12-04 Interlink Co., Ltd.
earth

// eat : 2014-01-23 Charleston Road Registry Inc.
eat

// eco : 2016-07-08 Big Room Inc.
eco

// edeka : 2014-12-18 EDEKA Verband kaufmännischer Genossenschaften e.V.
edeka

// education : 2013-11-07 Binky Moon, LLC
education

// email : 2013-10-31 Binky Moon, LLC
email

// emerck : 2014-04-03 Merck KGaA
emerck

// energy : 2014-09-11 Binky Moon, LLC
energy

// engineer : 2014-03-06 Dog Beach, LLC
engineer

// engineering : 2014-03-06 Binky Moon, LLC
engineering

// enterprises : 2013-09-20 Binky Moon, LLC
enterprises

// epson : 2014-12-04 Seiko Epson Corporation
epson

// equipment : 2013-08-27 Binky Moon, LLC
equipment

// ericsson : 2015-07-09 Telefonaktiebolaget L M Ericsson
ericsson

// erni : 2014-04-03 ERNI Group Holding AG
erni

// esq : 2014-05-08 Charleston Road Registry Inc.
esq

// estate : 2013-08-27
Binky Moon, LLC
estate

// etisalat : 2015-09-03 Emirates Telecommunications Corporation (trading as Etisalat)
etisalat

// eurovision : 2014-04-24 European Broadcasting Union (EBU)
eurovision

// eus : 2013-12-12 Puntueus Fundazioa
eus

// events : 2013-12-05 Binky Moon, LLC
events

// exchange : 2014-03-06 Binky Moon, LLC
exchange

// expert : 2013-11-21 Binky Moon, LLC
expert

// exposed : 2013-12-05 Binky Moon, LLC
exposed

// express : 2015-02-11 Binky Moon, LLC
express

// extraspace : 2015-05-14 Extra Space Storage LLC
extraspace

// fage : 2014-12-18 Fage International S.A.
fage

// fail : 2014-03-06 Binky Moon, LLC
fail

// fairwinds : 2014-11-13 FairWinds Partners, LLC
fairwinds

// faith : 2014-11-20 dot Faith Limited
faith

// family : 2015-04-02 Dog Beach, LLC
family

// fan : 2014-03-06 Dog Beach, LLC
fan

// fans : 2014-11-07 ZDNS International Limited
fans

// farm : 2013-11-07 Binky Moon, LLC
farm

// farmers : 2015-07-09 Farmers Insurance Exchange
farmers

// fashion
: 2014-07-03 Minds + Machines Group Limited
fashion

// fast : 2014-12-18 Amazon Registry Services, Inc.
fast

// fedex : 2015-08-06 Federal Express Corporation
fedex

// feedback : 2013-12-19 Top Level Spectrum, Inc.
feedback

// ferrari : 2015-07-31 Fiat Chrysler Automobiles N.V.
ferrari

// ferrero : 2014-12-18 Ferrero Trading Lux S.A.
ferrero

// fiat : 2015-07-31 Fiat Chrysler Automobiles N.V.

fiat

// fidelity : 2015-07-30 Fidelity Brokerage Services LLC
fidelity

// fido : 2015-08-06 Rogers Communications Canada Inc.
fido

// film : 2015-01-08 Motion Picture Domain Registry Pty Ltd
film

// final : 2014-10-16 Núcleo de Informação e Coordenação do Ponto BR - NIC.br
final

// finance : 2014-03-20 Binky Moon, LLC
finance

// financial : 2014-03-06 Binky Moon, LLC
financial

// fire : 2015-06-25 Amazon Registry Services, Inc.
fire

// firestone : 2014-12-18 Bridgestone Licensing Services, Inc
firestone

// firmdale : 2014-03-27 Firmdale Holdings Limited
firmdale

// fish : 2013-12-12
Binky Moon, LLC
fish

// fishing : 2013-11-21 Minds + Machines Group Limited
fishing

// fit : 2014-11-07 Minds + Machines Group Limited
fit

// fitness : 2014-03-06 Binky Moon, LLC
fitness

// flickr : 2015-04-02 Flickr, Inc.
flickr

// flights : 2013-12-05 Binky Moon, LLC
flights

// flir : 2015-07-23 FLIR Systems, Inc.
flir

// florist : 2013-11-07 Binky Moon, LLC
florist

// flowers : 2014-10-09 UNR Corp.
flowers

// fly : 2014-05-08 Charleston Road Registry Inc.
fly

// foo : 2014-01-23 Charleston Road Registry Inc.
foo

// food : 2016-04-21 Lifestyle Domain Holdings, Inc.
food

// foodnetwork : 2015-07-02 Lifestyle Domain Holdings, Inc.
foodnetwork

// football : 2014-12-18 Binky Moon, LLC
football

// ford : 2014-11-13 Ford Motor Company
ford

// forex : 2014-12-11 Dotforex Registry Limited
forex

// forsale : 2014-05-22 Dog Beach, LLC
forsale

// forum : 2015-04-02 Fegistry, LLC
forum

// foundation : 2013-12-05 Binky Moon, LLC
foundation

// fox : 2015-09-11 FOX Registry,
LLC
fox

// free : 2015-12-10 Amazon Registry Services, Inc.
free

// fresenius : 2015-07-30 Fresenius Immobilien-Verwaltungs-GmbH
fresenius

// frl : 2014-05-15 FRLregistry B.V.
frl

// frogans : 2013-12-19 OP3FT
frogans

// frontdoor : 2015-07-02 Lifestyle Domain Holdings, Inc.
frontdoor

// frontier : 2015-02-05 Frontier Communications Corporation
frontier

// ftr : 2015-07-16 Frontier Communications Corporation
ftr

// fujitsu : 2015-07-30 Fujitsu Limited
fujitsu

// fujixerox : 2015-07-23 Xerox DNHC LLC
fujixerox

// fun : 2016-01-14 DotSpace Inc.
fun

// fund : 2014-03-20 Binky Moon, LLC
fund

// furniture : 2014-03-20 Binky Moon, LLC
furniture

// futbol : 2013-09-20 Dog Beach, LLC
futbol

// fyi : 2015-04-02 Binky Moon, LLC
fyi

// gal : 2013-11-07 Asociación puntoGAL
gal

// gallery : 2013-09-13 Binky Moon, LLC
gallery

// gallo : 2015-06-11 Gallo Vineyards, Inc.
gallo

// gallup : 2015-02-19 Gallup, Inc.
gallup

// game : 2015-05-28 UNR Corp.
game

// games : 2015-05-28
Dog Beach, LLC
games

// gap : 2015-07-31 The Gap, Inc.
gap

// garden : 2014-06-26 Minds + Machines Group Limited
garden

// gay : 2019-05-23 Top Level Design, LLC
gay

// gbiz : 2014-07-17 Charleston Road Registry Inc.
gbiz

// gdn : 2014-07-31 Joint Stock Company "Navigation-information systems"
gdn

// gea : 2014-12-04 GEA Group Aktiengesellschaft
gea

// gent : 2014-01-23 COMBELL NV
gent

// genting : 2015-03-12 Resorts World Inc Pte. Ltd.
genting

// george : 2015-07-31 Wal-Mart Stores, Inc.
george

// ggee : 2014-01-09 GMO Internet, Inc.
ggee

// gift : 2013-10-17 DotGift, LLC
gift

// gifts : 2014-07-03 Binky Moon, LLC
gifts

// gives : 2014-03-06 Dog Beach, LLC
gives

// giving : 2014-11-13 Giving Limited

giving

// glade : 2015-07-23 Johnson Shareholdings, Inc.
glade

// glass : 2013-11-07 Binky Moon, LLC
glass

// gle : 2014-07-24 Charleston Road Registry Inc.
gle

// global : 2014-04-17 Dot Global Domain Registry Limited
global

// globo : 2013-12-19 Globo Comunicação e Participações
S.A
globo

// gmail : 2014-05-01 Charleston Road Registry Inc.
gmail

// gmbh : 2016-01-29 Binky Moon, LLC
gmbh

// gmo : 2014-01-09 GMO Internet, Inc.
gmo

// gmx : 2014-04-24 1&1 Mail & Media GmbH
gmx

// godaddy : 2015-07-23 Go Daddy East, LLC
godaddy

// gold : 2015-01-22 Binky Moon, LLC
gold

// goldpoint : 2014-11-20 YODOBASHI CAMERA CO.,LTD.
goldpoint

// golf : 2014-12-18 Binky Moon, LLC
golf

// goo : 2014-12-18 NTT Resonant Inc.
goo

// goodyear : 2015-07-02 The Goodyear Tire & Rubber Company
goodyear

// goog : 2014-11-20 Charleston Road Registry Inc.
goog

// google : 2014-07-24 Charleston Road Registry Inc.
google

// gop : 2014-01-16 Republican State Leadership Committee, Inc.
gop

// got : 2014-12-18 Amazon Registry Services, Inc.
got

// grainger : 2015-05-07 Grainger Registry Services, LLC
grainger

// graphics : 2013-09-13 Binky Moon, LLC
graphics

// gratis : 2014-03-20 Binky Moon, LLC
gratis

// green : 2014-05-08 Afilias Limited
green

// gripe : 2014-03-06
Binky Moon, LLC
gripe

// grocery : 2016-06-16 Wal-Mart Stores, Inc.
grocery

// group : 2014-08-15 Binky Moon, LLC
group

// guardian : 2015-07-30 The Guardian Life Insurance Company of America
guardian

// gucci : 2014-11-13 Guccio Gucci S.p.a.
gucci

// guge : 2014-08-28 Charleston Road Registry Inc.
guge

// guide : 2013-09-13 Binky Moon, LLC
guide

// guitars : 2013-11-14 UNR Corp.
guitars

// guru : 2013-08-27 Binky Moon, LLC
guru

// hair : 2015-12-03 XYZ.COM LLC
hair

// hamburg : 2014-02-20 Hamburg Top-Level-Domain GmbH
hamburg

// hangout : 2014-11-13 Charleston Road Registry Inc.
hangout

// haus : 2013-12-05 Dog Beach, LLC
haus

// hbo : 2015-07-30 HBO Registry Services, Inc.
hbo

// hdfc : 2015-07-30 HOUSING DEVELOPMENT FINANCE CORPORATION LIMITED
hdfc

// hdfcbank : 2015-02-12 HDFC Bank Limited
hdfcbank

// health : 2015-02-11 DotHealth, LLC
health

// healthcare : 2014-06-12 Binky Moon, LLC
healthcare

// help : 2014-06-26 UNR Corp.
help

// helsinki : 2015-02-05 City
of Helsinki
helsinki

// here : 2014-02-06 Charleston Road Registry Inc.
here

// hermes : 2014-07-10 HERMES INTERNATIONAL
hermes

// hgtv : 2015-07-02 Lifestyle Domain Holdings, Inc.
hgtv

// hiphop : 2014-03-06 UNR Corp.

hiphop

// hisamitsu : 2015-07-16 Hisamitsu Pharmaceutical Co.,Inc.
hisamitsu

// hitachi : 2014-10-31 Hitachi, Ltd.
hitachi

// hiv : 2014-03-13 UNR Corp.
hiv

// hkt : 2015-05-14 PCCW-HKT DataCom Services Limited
hkt

// hockey : 2015-03-19 Binky Moon, LLC
hockey

// holdings : 2013-08-27 Binky Moon, LLC
holdings

// holiday : 2013-11-07 Binky Moon, LLC
holiday

// homedepot : 2015-04-02 Home Depot Product Authority, LLC
homedepot

// homegoods : 2015-07-16 The TJX Companies, Inc.
homegoods

// homes : 2014-01-09 XYZ.COM LLC
homes

// homesense : 2015-07-16 The TJX Companies, Inc.
homesense

// honda : 2014-12-18 Honda Motor Co., Ltd.
honda

// horse : 2013-11-21 Minds + Machines Group Limited
horse

// hospital : 2016-10-20 Binky Moon, LLC
hospital

// host : 2014-04-17
DotHost Inc.
host

// hosting : 2014-05-29 UNR Corp.
hosting

// hot : 2015-08-27 Amazon Registry Services, Inc.
hot

// hoteles : 2015-03-05 Travel Reservations SRL
hoteles

// hotels : 2016-04-07 Booking.com B.V.
hotels

// hotmail : 2014-12-18 Microsoft Corporation
hotmail

// house : 2013-11-07 Binky Moon, LLC
house

// how : 2014-01-23 Charleston Road Registry Inc.
how

// hsbc : 2014-10-24 HSBC Global Services (UK) Limited
hsbc

// hughes : 2015-07-30 Hughes Satellite Systems Corporation
hughes

// hyatt : 2015-07-30 Hyatt GTLD, L.L.C.
hyatt

// hyundai : 2015-07-09 Hyundai Motor Company
hyundai

// ibm : 2014-07-31 International Business Machines Corporation
ibm

// icbc : 2015-02-19 Industrial and Commercial Bank of China Limited
icbc

// ice : 2014-10-30 IntercontinentalExchange, Inc.
ice

// icu : 2015-01-08 ShortDot SA
icu

// ieee : 2015-07-23 IEEE Global LLC
ieee

// ifm : 2014-01-30 ifm electronic gmbh
ifm

// ikano : 2015-07-09 Ikano S.A.
ikano

// imamat : 2015-08-06
Fondation Aga Khan (Aga Khan Foundation)
imamat

// imdb : 2015-06-25 Amazon Registry Services, Inc.
imdb

// immo : 2014-07-10 Binky Moon, LLC
immo

// immobilien : 2013-11-07 Dog Beach, LLC
immobilien

// inc : 2018-03-10 Intercap Registry Inc.
inc

// industries : 2013-12-05 Binky Moon, LLC
industries

// infiniti : 2014-03-27 NISSAN MOTOR CO., LTD.
infiniti

// ing : 2014-01-23 Charleston Road Registry Inc.
ing

// ink : 2013-12-05 Top Level Design, LLC
ink

// institute : 2013-11-07 Binky Moon, LLC
institute

// insurance : 2015-02-19 fTLD Registry Services LLC
insurance

// insure : 2014-03-20 Binky Moon, LLC
insure

// international : 2013-11-07 Binky Moon, LLC
international

// intuit : 2015-07-30 Intuit Administrative Services, Inc.
intuit

// investments : 2014-03-20 Binky Moon, LLC
investments

// ipiranga : 2014-08-28 Ipiranga Produtos de Petroleo S.A.
ipiranga

// irish : 2014-08-07 Binky Moon, LLC
irish

// ismaili : 2015-08-06 Fondation Aga Khan (Aga Khan Foundation)
ismaili

//
ist : 2014-08-28 Istanbul Metropolitan Municipality
ist

// istanbul : 2014-08-28 Istanbul Metropolitan Municipality
istanbul

// itau : 2014-10-02 Itau Unibanco Holding S.A.
itau

// itv : 2015-07-09 ITV Services Limited
itv

// iveco : 2015-09-03 CNH Industrial N.V.
iveco

// jaguar : 2014-11-13 Jaguar Land Rover Ltd
jaguar

// java : 2014-06-19 Oracle Corporation
java

// jcb : 2014-11-20 JCB Co., Ltd.
jcb

// jcp : 2015-04-23 JCP Media, Inc.
jcp

// jeep : 2015-07-30 FCA US LLC.
jeep

// jetzt : 2014-01-09 Binky Moon, LLC
jetzt

// jewelry : 2015-03-05 Binky Moon, LLC

jewelry

// jio : 2015-04-02 Reliance Industries Limited
jio

// jll : 2015-04-02 Jones Lang LaSalle Incorporated
jll

// jmp : 2015-03-26 Matrix IP LLC
jmp

// jnj : 2015-06-18 Johnson & Johnson Services, Inc.
jnj

// joburg : 2014-03-24 ZA Central Registry NPC trading as ZA Central Registry
joburg

// jot : 2014-12-18 Amazon Registry Services, Inc.
jot

// joy : 2014-12-18 Amazon Registry Services, Inc.
joy

//
jpmorgan : 2015-04-30 JPMorgan Chase Bank, National Association
jpmorgan

// jprs : 2014-09-18 Japan Registry Services Co., Ltd.
jprs

// juegos : 2014-03-20 UNR Corp.
juegos

// juniper : 2015-07-30 JUNIPER NETWORKS, INC.
juniper

// kaufen : 2013-11-07 Dog Beach, LLC
kaufen

// kddi : 2014-09-12 KDDI CORPORATION
kddi

// kerryhotels : 2015-04-30 Kerry Trading Co. Limited
kerryhotels

// kerrylogistics : 2015-04-09 Kerry Trading Co. Limited
kerrylogistics

// kerryproperties : 2015-04-09 Kerry Trading Co. Limited
kerryproperties

// kfh : 2014-12-04 Kuwait Finance House
kfh

// kia : 2015-07-09 KIA MOTORS CORPORATION
kia

// kim : 2013-09-23 Afilias Limited
kim

// kinder : 2014-11-07 Ferrero Trading Lux S.A.
kinder

// kindle : 2015-06-25 Amazon Registry Services, Inc.
kindle

// kitchen : 2013-09-20 Binky Moon, LLC
kitchen

// kiwi : 2013-09-20 DOT KIWI LIMITED
kiwi

// koeln : 2014-01-09 dotKoeln GmbH
koeln

// komatsu : 2015-01-08 Komatsu Ltd.
komatsu

// kosher : 2015-08-20
Kosher Marketing Assets LLC
kosher

// kpmg : 2015-04-23 KPMG International Cooperative (KPMG International Genossenschaft)
kpmg

// kpn : 2015-01-08 Koninklijke KPN N.V.
kpn

// krd : 2013-12-05 KRG Department of Information Technology
krd

// kred : 2013-12-19 KredTLD Pty Ltd
kred

// kuokgroup : 2015-04-09 Kerry Trading Co. Limited
kuokgroup

// kyoto : 2014-11-07 Academic Institution: Kyoto Jyoho Gakuen
kyoto

// lacaixa : 2014-01-09 Fundación Bancaria Caixa d'Estalvis i Pensions de Barcelona, "la Caixa"
lacaixa

// lamborghini : 2015-06-04 Automobili Lamborghini S.p.A.
lamborghini

// lamer : 2015-10-01 The Estée Lauder Companies Inc.
lamer

// lancaster : 2015-02-12 LANCASTER
lancaster

// lancia : 2015-07-31 Fiat Chrysler Automobiles N.V.
lancia

// land : 2013-09-10 Binky Moon, LLC
land

// landrover : 2014-11-13 Jaguar Land Rover Ltd
landrover

// lanxess : 2015-07-30 LANXESS Corporation
lanxess

// lasalle : 2015-04-02 Jones Lang LaSalle Incorporated
lasalle

// lat :
2014-10-16 ECOM-LAC Federaciòn de Latinoamèrica y el Caribe para Internet y el Comercio Electrònico
lat

// latino : 2015-07-30 Dish DBS Corporation
latino

// latrobe : 2014-06-16 La Trobe University
latrobe

// law : 2015-01-22 LW TLD Limited
law

// lawyer : 2014-03-20 Dog Beach, LLC
lawyer

// lds : 2014-03-20 IRI Domain Management, LLC

lds

// lease : 2014-03-06 Binky Moon, LLC
lease

// leclerc : 2014-08-07 A.C.D. LEC Association des Centres Distributeurs Edouard Leclerc
leclerc

// lefrak : 2015-07-16 LeFrak Organization, Inc.
lefrak

// legal : 2014-10-16 Binky Moon, LLC
legal

// lego : 2015-07-16 LEGO Juris A/S
lego

// lexus : 2015-04-23 TOYOTA MOTOR CORPORATION
lexus

// lgbt : 2014-05-08 Afilias Limited
lgbt

// lidl : 2014-09-18 Schwarz Domains und Services GmbH & Co. KG
lidl

// life : 2014-02-06 Binky Moon, LLC
life

// lifeinsurance : 2015-01-15 American Council of Life Insurers
lifeinsurance

// lifestyle : 2014-12-11 Lifestyle Domain Holdings, Inc.
lifestyle

// lighting
 : 2013-08-27 Binky Moon, LLC
lighting

// like : 2014-12-18 Amazon Registry Services, Inc.
like

// lilly : 2015-07-31 Eli Lilly and Company
lilly

// limited : 2014-03-06 Binky Moon, LLC
limited

// limo : 2013-10-17 Binky Moon, LLC
limo

// lincoln : 2014-11-13 Ford Motor Company
lincoln

// linde : 2014-12-04 Linde Aktiengesellschaft
linde

// link : 2013-11-14 UNR Corp.
link

// lipsy : 2015-06-25 Lipsy Ltd
lipsy

// live : 2014-12-04 Dog Beach, LLC
live

// living : 2015-07-30 Lifestyle Domain Holdings, Inc.
living

// lixil : 2015-03-19 LIXIL Group Corporation
lixil

// llc : 2017-12-14 Afilias Limited
llc

// llp : 2019-08-26 UNR Corp.
llp

// loan : 2014-11-20 dot Loan Limited
loan

// loans : 2014-03-20 Binky Moon, LLC
loans

// locker : 2015-06-04 Dish DBS Corporation
locker

// locus : 2015-06-25 Locus Analytics LLC
locus

// loft : 2015-07-30 Annco, Inc.
loft

// lol : 2015-01-30 UNR Corp.
lol

// london : 2013-11-14 Dot London Domains Limited
london

// lotte : 2014-11-07
Lotte Holdings Co., Ltd.
lotte

// lotto : 2014-04-10 Afilias Limited
lotto

// love : 2014-12-22 Merchant Law Group LLP
love

// lpl : 2015-07-30 LPL Holdings, Inc.
lpl

// lplfinancial : 2015-07-30 LPL Holdings, Inc.
lplfinancial

// ltd : 2014-09-25 Binky Moon, LLC
ltd

// ltda : 2014-04-17 InterNetX, Corp
ltda

// lundbeck : 2015-08-06 H. Lundbeck A/S
lundbeck

// lupin : 2014-11-07 LUPIN LIMITED
lupin

// luxe : 2014-01-09 Minds + Machines Group Limited
luxe

// luxury : 2013-10-17 Luxury Partners, LLC
luxury

// macys : 2015-07-31 Macys, Inc.
macys

// madrid : 2014-05-01 Comunidad de Madrid
madrid

// maif : 2014-10-02 Mutuelle Assurance Instituteur France (MAIF)
maif

// maison : 2013-12-05 Binky Moon, LLC
maison

// makeup : 2015-01-15 XYZ.COM LLC
makeup

// man : 2014-12-04 MAN SE
man

// management : 2013-11-07 Binky Moon, LLC
management

// mango : 2013-10-24 PUNTO FA S.L.
mango

// map : 2016-06-09 Charleston Road Registry Inc.
map

// market : 2014-03-06 Dog Beach, LLC
market

//
marketing : 2013-11-07 Binky Moon, LLC
marketing

// markets : 2014-12-11 Dotmarkets Registry Limited
markets

// marriott : 2014-10-09 Marriott Worldwide Corporation
marriott

// marshalls : 2015-07-16 The TJX Companies, Inc.
marshalls

// maserati : 2015-07-31 Fiat Chrysler Automobiles N.V.
maserati

// mattel : 2015-08-06 Mattel Sites, Inc.
mattel

// mba : 2015-04-02 Binky Moon, LLC
mba

// mckinsey : 2015-07-31 McKinsey Holdings, Inc.
mckinsey

// med : 2015-08-06 Medistry LLC
med

// media : 2014-03-06 Binky Moon, LLC

media

// meet : 2014-01-16 Charleston Road Registry Inc.
meet

// melbourne : 2014-05-29 The Crown in right of the State of Victoria, represented by its Department of State Development, Business and Innovation
melbourne

// meme : 2014-01-30 Charleston Road Registry Inc.
meme

// memorial : 2014-10-16 Dog Beach, LLC
memorial

// men : 2015-02-26 Exclusive Registry Limited
men

// menu : 2013-09-11 Dot Menu Registry, LLC
menu

// merckmsd : 2016-07-14
MSD Registry Holdings, Inc.
merckmsd

// miami : 2013-12-19 Minds + Machines Group Limited
miami

// microsoft : 2014-12-18 Microsoft Corporation
microsoft

// mini : 2014-01-09 Bayerische Motoren Werke Aktiengesellschaft
mini

// mint : 2015-07-30 Intuit Administrative Services, Inc.
mint

// mit : 2015-07-02 Massachusetts Institute of Technology
mit

// mitsubishi : 2015-07-23 Mitsubishi Corporation
mitsubishi

// mlb : 2015-05-21 MLB Advanced Media DH, LLC
mlb

// mls : 2015-04-23 The Canadian Real Estate Association
mls

// mma : 2014-11-07 MMA IARD
mma

// mobile : 2016-06-02 Dish DBS Corporation
mobile

// moda : 2013-11-07 Dog Beach, LLC
moda

// moe : 2013-11-13 Interlink Co., Ltd.
moe

// moi : 2014-12-18 Amazon Registry Services, Inc.
moi

// mom : 2015-04-16 UNR Corp.
mom

// monash : 2013-09-30 Monash University
monash

// money : 2014-10-16 Binky Moon, LLC
money

// monster : 2015-09-11 XYZ.COM LLC
monster

// mormon : 2013-12-05 IRI Domain Management, LLC
mormon

// mortgage
: 2014-03-20 Dog Beach, LLC
mortgage

// moscow : 2013-12-19 Foundation for Assistance for Internet Technologies and Infrastructure Development (FAITID)
moscow

// moto : 2015-06-04 Motorola Trademark Holdings, LLC
moto

// motorcycles : 2014-01-09 XYZ.COM LLC
motorcycles

// mov : 2014-01-30 Charleston Road Registry Inc.
mov

// movie : 2015-02-05 Binky Moon, LLC
movie

// msd : 2015-07-23 MSD Registry Holdings, Inc.
msd

// mtn : 2014-12-04 MTN Dubai Limited
mtn

// mtr : 2015-03-12 MTR Corporation Limited
mtr

// mutual : 2015-04-02 Northwestern Mutual MU TLD Registry, LLC
mutual

// nab : 2015-08-20 National Australia Bank Limited
nab

// nagoya : 2013-10-24 GMO Registry, Inc.
nagoya

// nationwide : 2015-07-23 Nationwide Mutual Insurance Company
nationwide

// natura : 2015-03-12 NATURA COSMÉTICOS S.A.
natura

// navy : 2014-03-06 Dog Beach, LLC
navy

// nba : 2015-07-31 NBA REGISTRY, LLC
nba

// nec : 2015-01-08 NEC Corporation
nec

// netbank : 2014-06-26 COMMONWEALTH BANK OF
AUSTRALIA
netbank

// netflix : 2015-06-18 Netflix, Inc.
netflix

// network : 2013-11-14 Binky Moon, LLC
network

// neustar : 2013-12-05 NeuStar, Inc.
neustar

// new : 2014-01-30 Charleston Road Registry Inc.
new

// newholland : 2015-09-03 CNH Industrial N.V.
newholland

// news : 2014-12-18 Dog Beach, LLC
news

// next : 2015-06-18 Next plc
next

// nextdirect : 2015-06-18 Next plc
nextdirect

// nexus : 2014-07-24 Charleston Road Registry Inc.
nexus

// nfl : 2015-07-23 NFL Reg Ops LLC
nfl

// ngo : 2014-03-06 Public Interest Registry
ngo

// nhk : 2014-02-13 Japan Broadcasting Corporation (NHK)
nhk

// nico : 2014-12-04 DWANGO Co., Ltd.
nico

// nike : 2015-07-23 NIKE, Inc.
nike

// nikon : 2015-05-21 NIKON CORPORATION
nikon

// ninja : 2013-11-07 Dog Beach, LLC
ninja

// nissan : 2014-03-27 NISSAN MOTOR CO., LTD.
nissan

// nissay : 2015-10-29 Nippon Life Insurance Company
nissay

// nokia : 2015-01-08 Nokia Corporation
nokia

// northwesternmutual : 2015-06-18 Northwestern Mutual
Registry, LLC
northwesternmutual

// norton : 2014-12-04 NortonLifeLock Inc.
norton

// now : 2015-06-25 Amazon Registry Services, Inc.
now

// nowruz : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
nowruz

// nowtv : 2015-05-14 Starbucks (HK) Limited
nowtv

// nra : 2014-05-22 NRA Holdings Company, INC.
nra

// nrw : 2013-11-21 Minds + Machines GmbH
nrw

// ntt : 2014-10-31 NIPPON TELEGRAPH AND TELEPHONE CORPORATION
ntt

// nyc : 2014-01-23 The City of New York by and through the New York City Department of Information Technology & Telecommunications
nyc

// obi : 2014-09-25 OBI Group Holding SE & Co. KGaA
obi

// observer : 2015-04-30 Top Level Spectrum, Inc.
observer

// off : 2015-07-23 Johnson Shareholdings, Inc.
off

// office : 2015-03-12 Microsoft Corporation
office

// okinawa : 2013-12-05 BRregistry, Inc.
okinawa

// olayan : 2015-05-14 Crescent Holding GmbH
olayan

// olayangroup : 2015-05-14 Crescent Holding GmbH
olayangroup

// oldnavy : 2015-07-31
The Gap, Inc.
oldnavy

// ollo : 2015-06-04 Dish DBS Corporation
ollo

// omega : 2015-01-08 The Swatch Group Ltd
omega

// one : 2014-11-07 One.com A/S
one

// ong : 2014-03-06 Public Interest Registry
ong

// onl : 2013-09-16 iRegistry GmbH
onl

// online : 2015-01-15 DotOnline Inc.
online

// onyourside : 2015-07-23 Nationwide Mutual Insurance Company
onyourside

// ooo : 2014-01-09 INFIBEAM AVENUES LIMITED
ooo

// open : 2015-07-31 American Express Travel Related Services Company, Inc.
open

// oracle : 2014-06-19 Oracle Corporation
oracle

// orange : 2015-03-12 Orange Brand Services Limited
orange

// organic : 2014-03-27 Afilias Limited
organic

// origins : 2015-10-01 The Estée Lauder Companies Inc.
origins

// osaka : 2014-09-04 Osaka Registry Co., Ltd.
osaka

// otsuka : 2013-10-11 Otsuka Holdings Co., Ltd.
otsuka

// ott : 2015-06-04 Dish DBS Corporation
ott

// ovh : 2014-01-16 MédiaBC
ovh

// page : 2014-12-04 Charleston Road Registry Inc.
page

// panasonic : 2015-07-30
Panasonic Corporation
panasonic

// paris : 2014-01-30 City of Paris
paris

// pars : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
pars

// partners : 2013-12-05 Binky Moon, LLC
partners

// parts : 2013-12-05 Binky Moon, LLC
parts

// party : 2014-09-11 Blue Sky Registry Limited
party

// passagens : 2015-03-05 Travel Reservations SRL
passagens

// pay : 2015-08-27 Amazon Registry Services, Inc.
pay

// pccw : 2015-05-14 PCCW Enterprises Limited
pccw

// pet : 2015-05-07 Afilias Limited
pet

// pfizer : 2015-09-11 Pfizer Inc.
pfizer

// pharmacy : 2014-06-19 National Association of Boards of Pharmacy

pharmacy

// phd : 2016-07-28 Charleston Road Registry Inc.
phd

// philips : 2014-11-07 Koninklijke Philips N.V.
philips

// phone : 2016-06-02 Dish DBS Corporation
phone

// photo : 2013-11-14 UNR Corp.
photo

// photography : 2013-09-20 Binky Moon, LLC
photography

// photos : 2013-10-17 Binky Moon, LLC
photos

// physio : 2014-05-01 PhysBiz Pty Ltd
physio

// pics
: 2013-11-14 UNR Corp.
pics

// pictet : 2014-06-26 Pictet Europe S.A.
pictet

// pictures : 2014-03-06 Binky Moon, LLC
pictures

// pid : 2015-01-08 Top Level Spectrum, Inc.
pid

// pin : 2014-12-18 Amazon Registry Services, Inc.
pin

// ping : 2015-06-11 Ping Registry Provider, Inc.
ping

// pink : 2013-10-01 Afilias Limited
pink

// pioneer : 2015-07-16 Pioneer Corporation
pioneer

// pizza : 2014-06-26 Binky Moon, LLC
pizza

// place : 2014-04-24 Binky Moon, LLC
place

// play : 2015-03-05 Charleston Road Registry Inc.
play

// playstation : 2015-07-02 Sony Interactive Entertainment Inc.
playstation

// plumbing : 2013-09-10 Binky Moon, LLC
plumbing

// plus : 2015-02-05 Binky Moon, LLC
plus

// pnc : 2015-07-02 PNC Domain Co., LLC
pnc

// pohl : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
pohl

// poker : 2014-07-03 Afilias Limited
poker

// politie : 2015-08-20 Politie Nederland
politie

// porn : 2014-10-16 ICM Registry PN LLC
porn

// pramerica : 2015-07-30
Prudential Financial, Inc.
pramerica

// praxi : 2013-12-05 Praxi S.p.A.
praxi

// press : 2014-04-03 DotPress Inc.
press

// prime : 2015-06-25 Amazon Registry Services, Inc.
prime

// prod : 2014-01-23 Charleston Road Registry Inc.
prod

// productions : 2013-12-05 Binky Moon, LLC
productions

// prof : 2014-07-24 Charleston Road Registry Inc.
prof

// progressive : 2015-07-23 Progressive Casualty Insurance Company
progressive

// promo : 2014-12-18 Afilias Limited
promo

// properties : 2013-12-05 Binky Moon, LLC
properties

// property : 2014-05-22 UNR Corp.
property

// protection : 2015-04-23 XYZ.COM LLC
protection

// pru : 2015-07-30 Prudential Financial, Inc.
pru

// prudential : 2015-07-30 Prudential Financial, Inc.
prudential

// pub : 2013-12-12 Dog Beach, LLC
pub

// pwc : 2015-10-29 PricewaterhouseCoopers LLP
pwc

// qpon : 2013-11-14 dotCOOL, Inc.
qpon

// quebec : 2013-12-19 PointQuébec Inc
quebec

// quest : 2015-03-26 XYZ.COM LLC
quest

// qvc : 2015-07-30 QVC, Inc.
qvc

//

racing : 2014-12-04 Premier Registry Limited
racing

// radio : 2016-07-21 European Broadcasting Union (EBU)
radio

// raid : 2015-07-23 Johnson Shareholdings, Inc.
raid

// read : 2014-12-18 Amazon Registry Services, Inc.
read

// realestate : 2015-09-11 dotRealEstate LLC
realestate

// realtor : 2014-05-29 Real Estate Domains LLC
realtor

// realty : 2015-03-19 Fegistry, LLC
realty

// recipes : 2013-10-17 Binky Moon, LLC
recipes

// red : 2013-11-07 Afilias Limited
red

// redstone : 2014-10-31 Redstone Haute Couture Co., Ltd.
redstone

// redumbrella : 2015-03-26 Travelers TLD, LLC
redumbrella

// rehab : 2014-03-06 Dog Beach, LLC
rehab

// reise : 2014-03-13 Binky Moon, LLC
reise

// reisen : 2014-03-06 Binky Moon, LLC
reisen

// reit : 2014-09-04 National Association of Real Estate Investment Trusts, Inc.
reit

// reliance : 2015-04-02 Reliance Industries Limited
reliance

// ren : 2013-12-12 ZDNS International Limited
ren

// rent : 2014-12-04 XYZ.COM LLC
rent

// rentals
 : 2013-12-05 Binky Moon, LLC
rentals

// repair : 2013-11-07 Binky Moon, LLC
repair

// report : 2013-12-05 Binky Moon, LLC
report

// republican : 2014-03-20 Dog Beach, LLC
republican

// rest : 2013-12-19 Punto 2012 Sociedad Anonima Promotora de Inversion de Capital Variable
rest

// restaurant : 2014-07-03 Binky Moon, LLC
restaurant

// review : 2014-11-20 dot Review Limited
review

// reviews : 2013-09-13 Dog Beach, LLC
reviews

// rexroth : 2015-06-18 Robert Bosch GMBH
rexroth

// rich : 2013-11-21 iRegistry GmbH
rich

// richardli : 2015-05-14 Pacific Century Asset Management (HK) Limited
richardli

// ricoh : 2014-11-20 Ricoh Company, Ltd.
ricoh

// ril : 2015-04-02 Reliance Industries Limited
ril

// rio : 2014-02-27 Empresa Municipal de Informática SA - IPLANRIO
rio

// rip : 2014-07-10 Dog Beach, LLC
rip

// rmit : 2015-11-19 Royal Melbourne Institute of Technology
rmit

// rocher : 2014-12-18 Ferrero Trading Lux S.A.
rocher

// rocks : 2013-11-14 Dog Beach, LLC
rocks

// rodeo
: 2013-12-19 Minds + Machines Group Limited
rodeo

// rogers : 2015-08-06 Rogers Communications Canada Inc.
rogers

// room : 2014-12-18 Amazon Registry Services, Inc.
room

// rsvp : 2014-05-08 Charleston Road Registry Inc.
rsvp

// rugby : 2016-12-15 World Rugby Strategic Developments Limited
rugby

// ruhr : 2013-10-02 regiodot GmbH & Co. KG
ruhr

// run : 2015-03-19 Binky Moon, LLC
run

// rwe : 2015-04-02 RWE AG
rwe

// ryukyu : 2014-01-09 BRregistry, Inc.
ryukyu

// saarland : 2013-12-12 dotSaarland GmbH
saarland

// safe : 2014-12-18 Amazon Registry Services, Inc.
safe

// safety : 2015-01-08 Safety Registry Services, LLC.

safety

// sakura : 2014-12-18 SAKURA Internet Inc.
sakura

// sale : 2014-10-16 Dog Beach, LLC
sale

// salon : 2014-12-11 Binky Moon, LLC
salon

// samsclub : 2015-07-31 Wal-Mart Stores, Inc.
samsclub

// samsung : 2014-04-03 SAMSUNG SDS CO., LTD
samsung

// sandvik : 2014-11-13 Sandvik AB
sandvik

// sandvikcoromant : 2014-11-07 Sandvik AB
sandvikcoromant

//
sanofi : 2014-10-09 Sanofi
sanofi

// sap : 2014-03-27 SAP AG
sap

// sarl : 2014-07-03 Binky Moon, LLC
sarl

// sas : 2015-04-02 Research IP LLC
sas

// save : 2015-06-25 Amazon Registry Services, Inc.
save

// saxo : 2014-10-31 Saxo Bank A/S
saxo

// sbi : 2015-03-12 STATE BANK OF INDIA
sbi

// sbs : 2014-11-07 SPECIAL BROADCASTING SERVICE CORPORATION
sbs

// sca : 2014-03-13 SVENSKA CELLULOSA AKTIEBOLAGET SCA (publ)
sca

// scb : 2014-02-20 The Siam Commercial Bank Public Company Limited ("SCB")
scb

// schaeffler : 2015-08-06 Schaeffler Technologies AG & Co. KG
schaeffler

// schmidt : 2014-04-03 SCHMIDT GROUPE S.A.S.
schmidt

// scholarships : 2014-04-24 Scholarships.com, LLC
scholarships

// school : 2014-12-18 Binky Moon, LLC
school

// schule : 2014-03-06 Binky Moon, LLC
schule

// schwarz : 2014-09-18 Schwarz Domains und Services GmbH & Co. KG
schwarz

// science : 2014-09-11 dot Science Limited
science

// scjohnson : 2015-07-23 Johnson Shareholdings, Inc.
scjohnson

//
scot : 2014-01-23 Dot Scot Registry Limited
scot

// search : 2016-06-09 Charleston Road Registry Inc.
search

// seat : 2014-05-22 SEAT, S.A. (Sociedad Unipersonal)
seat

// secure : 2015-08-27 Amazon Registry Services, Inc.
secure

// security : 2015-05-14 XYZ.COM LLC
security

// seek : 2014-12-04 Seek Limited
seek

// select : 2015-10-08 Registry Services, LLC
select

// sener : 2014-10-24 Sener Ingeniería y Sistemas, S.A.
sener

// services : 2014-02-27 Binky Moon, LLC
services

// ses : 2015-07-23 SES
ses

// seven : 2015-08-06 Seven West Media Ltd
seven

// sew : 2014-07-17 SEW-EURODRIVE GmbH & Co KG
sew

// sex : 2014-11-13 ICM Registry SX LLC
sex

// sexy : 2013-09-11 UNR Corp.
sexy

// sfr : 2015-08-13 Societe Francaise du Radiotelephone - SFR
sfr

// shangrila : 2015-09-03 ShangriLa International Hotel Management Limited
shangrila

// sharp : 2014-05-01 Sharp Corporation
sharp

// shaw : 2015-04-23 Shaw Cablesystems G.P.
shaw

// shell : 2015-07-30 Shell Information Technology
International Inc
shell

// shia : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
shia

// shiksha : 2013-11-14 Afilias Limited
shiksha

// shoes : 2013-10-02 Binky Moon, LLC

shoes

// shop : 2016-04-08 GMO Registry, Inc.
shop

// shopping : 2016-03-31 Binky Moon, LLC
shopping

// shouji : 2015-01-08 Beijing Qihu Keji Co., Ltd.
shouji

// show : 2015-03-05 Binky Moon, LLC
show

// showtime : 2015-08-06 CBS Domains Inc.
showtime

// shriram : 2014-01-23 Shriram Capital Ltd.
shriram

// silk : 2015-06-25 Amazon Registry Services, Inc.
silk

// sina : 2015-03-12 Sina Corporation
sina

// singles : 2013-08-27 Binky Moon, LLC
singles

// site : 2015-01-15 DotSite Inc.
site

// ski : 2015-04-09 Afilias Limited
ski

// skin : 2015-01-15 XYZ.COM LLC
skin

// sky : 2014-06-19 Sky International AG
sky

// skype : 2014-12-18 Microsoft Corporation
skype

// sling : 2015-07-30 DISH Technologies L.L.C.
sling

// smart : 2015-07-09 Smart Communications, Inc. (SMART)

smart

//
 smile : 2014-12-18 Amazon Registry Services, Inc.
smile

// sncf : 2015-02-19 Société Nationale des Chemins de fer Francais S N C F
sncf

// soccer : 2015-03-26 Binky Moon, LLC
soccer

// social : 2013-11-07 Dog Beach, LLC
social

// softbank : 2015-07-02 SoftBank Group Corp.
softbank

// software : 2014-03-20 Dog Beach, LLC
software

// sohu : 2013-12-19 Sohu.com Limited
sohu

// solar : 2013-11-07 Binky Moon, LLC
solar

// solutions : 2013-11-07 Binky Moon, LLC
solutions

// song : 2015-02-26 Amazon Registry Services, Inc.
song

// sony : 2015-01-08 Sony Corporation
sony

// soy : 2014-01-23 Charleston Road Registry Inc.
soy

// spa : 2019-09-19 Asia Spa and Wellness Promotion Council Limited
spa

// space : 2014-04-03 DotSpace Inc.
space

// sport : 2017-11-16 Global Association of International Sports Federations (GAISF)
sport

// spot : 2015-02-26 Amazon Registry Services, Inc.
spot

// spreadbetting : 2014-12-11 Dotspreadbetting Registry Limited
spreadbetting

// srl : 2015-05-07
InterNetX, Corp
srl

// stada : 2014-11-13 STADA Arzneimittel AG
stada

// staples : 2015-07-30 Staples, Inc.
staples

// star : 2015-01-08 Star India Private Limited
star

// statebank : 2015-03-12 STATE BANK OF INDIA
statebank

// statefarm : 2015-07-30 State Farm Mutual Automobile Insurance Company
statefarm

// stc : 2014-10-09 Saudi Telecom Company
stc

// stcgroup : 2014-10-09 Saudi Telecom Company
stcgroup

// stockholm : 2014-12-18 Stockholms kommun
stockholm

// storage : 2014-12-22 XYZ.COM LLC
storage

// store : 2015-04-09 DotStore Inc.
store

// stream : 2016-01-08 dot Stream Limited
stream

// studio : 2015-02-11 Dog Beach, LLC
studio

// study : 2014-12-11 OPEN UNIVERSITIES AUSTRALIA PTY LTD
study

// style : 2014-12-04 Binky Moon, LLC
style

// sucks : 2014-12-22 Vox Populi Registry Ltd.
sucks

// supplies : 2013-12-19 Binky Moon, LLC
supplies

// supply : 2013-12-19 Binky Moon, LLC
supply

// support : 2013-10-24 Binky Moon, LLC
support

// surf : 2014-01-09 Minds + Machines
Group Limited
surf

// surgery : 2014-03-20 Binky Moon, LLC
surgery

// suzuki : 2014-02-20 SUZUKI MOTOR CORPORATION
suzuki

// swatch : 2015-01-08 The Swatch Group Ltd
swatch

// swiftcover : 2015-07-23 Swiftcover Insurance Services Limited
swiftcover

// swiss : 2014-10-16 Swiss Confederation
swiss

// sydney : 2014-09-18 State of New South Wales, Department of Premier and Cabinet
sydney

// systems : 2013-11-07 Binky Moon, LLC
systems

// tab : 2014-12-04 Tabcorp Holdings Limited
tab

// taipei : 2014-07-10 Taipei City Government
taipei

// talk : 2015-04-09 Amazon Registry Services, Inc.

talk

// taobao : 2015-01-15 Alibaba Group Holding Limited
taobao

// target : 2015-07-31 Target Domain Holdings, LLC
target

// tatamotors : 2015-03-12 Tata Motors Ltd
tatamotors

// tatar : 2014-04-24 Limited Liability Company "Coordination Center of Regional Domain of Tatarstan Republic"
tatar

// tattoo : 2013-08-30 UNR Corp.
tattoo

// tax : 2014-03-20 Binky Moon, LLC
tax

// taxi : 2015-03-19
Binky Moon, LLC
taxi

// tci : 2014-09-12 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.
tci

// tdk : 2015-06-11 TDK Corporation
tdk

// team : 2015-03-05 Binky Moon, LLC
team

// tech : 2015-01-30 Personals TLD Inc.
tech

// technology : 2013-09-13 Binky Moon, LLC
technology

// temasek : 2014-08-07 Temasek Holdings (Private) Limited
temasek

// tennis : 2014-12-04 Binky Moon, LLC
tennis

// teva : 2015-07-02 Teva Pharmaceutical Industries Limited
teva

// thd : 2015-04-02 Home Depot Product Authority, LLC
thd

// theater : 2015-03-19 Binky Moon, LLC
theater

// theatre : 2015-05-07 XYZ.COM LLC
theatre

// tiaa : 2015-07-23 Teachers Insurance and Annuity Association of America
tiaa

// tickets : 2015-02-05 Accent Media Limited
tickets

// tienda : 2013-11-14 Binky Moon, LLC
tienda

// tiffany : 2015-01-30 Tiffany and Company
tiffany

// tips : 2013-09-20 Binky Moon, LLC
tips

// tires : 2014-11-07 Binky Moon, LLC
tires

// tirol : 2014-04-24 punkt Tirol GmbH
tirol

//
tjmaxx : 2015-07-16 The TJX Companies, Inc.
tjmaxx

// tjx : 2015-07-16 The TJX Companies, Inc.
tjx

// tkmaxx : 2015-07-16 The TJX Companies, Inc.
tkmaxx

// tmall : 2015-01-15 Alibaba Group Holding Limited
tmall

// today : 2013-09-20 Binky Moon, LLC
today

// tokyo : 2013-11-13 GMO Registry, Inc.
tokyo

// tools : 2013-11-21 Binky Moon, LLC
tools

// top : 2014-03-20 .TOP Registry
top

// toray : 2014-12-18 Toray Industries, Inc.
toray

// toshiba : 2014-04-10 TOSHIBA Corporation
toshiba

// total : 2015-08-06 Total SA
total

// tours : 2015-01-22 Binky Moon, LLC
tours

// town : 2014-03-06 Binky Moon, LLC
town

// toyota : 2015-04-23 TOYOTA MOTOR CORPORATION
toyota

// toys : 2014-03-06 Binky Moon, LLC
toys

// trade : 2014-01-23 Elite Registry Limited
trade

// trading : 2014-12-11 Dottrading Registry Limited
trading

// training : 2013-11-07 Binky Moon, LLC
training

// travel : 2015-10-09 Dog Beach, LLC
travel

// travelchannel : 2015-07-02 Lifestyle Domain Holdings, Inc.
travelchannel

//
travelers : 2015-03-26 Travelers TLD, LLC
travelers

// travelersinsurance : 2015-03-26 Travelers TLD, LLC

travelersinsurance

// trust : 2014-10-16 NCC Group Domain Services, Inc.
trust

// trv : 2015-03-26 Travelers TLD, LLC
trv

// tube : 2015-06-11 Latin American Telecom LLC
tube

// tui : 2014-07-03 TUI AG
tui

// tunes : 2015-02-26 Amazon Registry Services, Inc.
tunes

// tushu : 2014-12-18 Amazon Registry Services, Inc.
tushu

// tvs : 2015-02-19 T V SUNDRAM IYENGAR & SONS LIMITED
tvs

// ubank : 2015-08-20 National Australia Bank Limited
ubank

// ubs : 2014-12-11 UBS AG
ubs

// unicom : 2015-10-15 China United Network Communications Corporation Limited
unicom

// university : 2014-03-06 Binky Moon, LLC
university

// uno : 2013-09-11 DotSite Inc.
uno

// uol : 2014-05-01 UBN INTERNET LTDA.
uol

// ups : 2015-06-25 UPS Market Driver, Inc.
ups

// vacations : 2013-12-05 Binky Moon, LLC
vacations

// vana : 2014-12-11 Lifestyle Domain Holdings, Inc.

vana

// vanguard
 : 2015-09-03 The Vanguard Group, Inc.
vanguard

// vegas : 2014-01-16 Dot Vegas, Inc.
vegas

// ventures : 2013-08-27 Binky Moon, LLC
ventures

// verisign : 2015-08-13 VeriSign, Inc.
verisign

// versicherung : 2014-03-20 tldbox GmbH
versicherung

// vet : 2014-03-06 Dog Beach, LLC
vet

// viajes : 2013-10-17 Binky Moon, LLC
viajes

// video : 2014-10-16 Dog Beach, LLC
video

// vig : 2015-05-14 VIENNA INSURANCE GROUP AG Wiener Versicherung Gruppe
vig

// viking : 2015-04-02 Viking River Cruises (Bermuda) Ltd.
viking

// villas : 2013-12-05 Binky Moon, LLC
villas

// vin : 2015-06-18 Binky Moon, LLC
vin

// vip : 2015-01-22 Minds + Machines Group Limited
vip

// virgin : 2014-09-25 Virgin Enterprises Limited
virgin

// visa : 2015-07-30 Visa Worldwide Pte. Limited
visa

// vision : 2013-12-05 Binky Moon, LLC
vision

// viva : 2014-11-07 Saudi Telecom Company
viva

// vivo : 2015-07-31 Telefonica Brasil S.A.
vivo

// vlaanderen : 2014-02-06 DNS.be vzw
vlaanderen

// vodka : 2013-12-19
Minds + Machines Group Limited
vodka

// volkswagen : 2015-05-14 Volkswagen Group of America Inc.
volkswagen

// volvo : 2015-11-12 Volvo Holding Sverige Aktiebolag
volvo

// vote : 2013-11-21 Monolith Registry LLC
vote

// voting : 2013-11-13 Valuetainment Corp.
voting

// voto : 2013-11-21 Monolith Registry LLC
voto

// voyage : 2013-08-27 Binky Moon, LLC
voyage

// vuelos : 2015-03-05 Travel Reservations SRL
vuelos

// wales : 2014-05-08 Nominet UK
wales

// walmart : 2015-07-31 Wal-Mart Stores, Inc.
walmart

// walter : 2014-11-13 Sandvik AB
walter

// wang : 2013-10-24 Zodiac Wang Limited
wang

// wanggou : 2014-12-18 Amazon Registry Services, Inc.
wanggou

// watch : 2013-11-14 Binky Moon, LLC
watch

// watches : 2014-12-22 Richemont DNS Inc.
watches

// weather : 2015-01-08 International Business Machines Corporation
weather

// weatherchannel : 2015-03-12 International Business Machines Corporation
weatherchannel

// webcam : 2014-01-23 dot Webcam Limited
webcam

// weber :
2015-06-04 Saint-Gobain Weber SA
weber

// website : 2014-04-03 DotWebsite Inc.
website

// wedding : 2014-04-24 Minds + Machines Group Limited
wedding

// weibo : 2015-03-05 Sina Corporation
weibo

// weir : 2015-01-29 Weir Group IP Limited
weir

// whoswho : 2014-02-20 Who's Who Registry
whoswho

// wien : 2013-10-28 punkt.wien GmbH
wien

// wiki : 2013-11-07 Top Level Design, LLC
wiki

// williamhill : 2014-03-13 William Hill Organization Limited
williamhill

// win : 2014-11-20 First Registry Limited

win

// windows : 2014-12-18 Microsoft Corporation
windows

// wine : 2015-06-18 Binky Moon, LLC
wine

// winners : 2015-07-16 The TJX Companies, Inc.
winners

// wme : 2014-02-13 William Morris Endeavor Entertainment, LLC
wme

// wolterskluwer : 2015-08-06 Wolters Kluwer N.V.
wolterskluwer

// woodside : 2015-07-09 Woodside Petroleum Limited
woodside

// work : 2013-12-19 Minds + Machines Group Limited
work

// works : 2013-11-14 Binky Moon, LLC
works

// world : 2014-06-12 Binky Moon,
LLC
world

// wow : 2015-10-08 Amazon Registry Services, Inc.
wow

// wtc : 2013-12-19 World Trade Centers Association, Inc.
wtc

// wtf : 2014-03-06 Binky Moon, LLC
wtf

// xbox : 2014-12-18 Microsoft Corporation
xbox

// xerox : 2014-10-24 Xerox DNHC LLC
xerox

// xfinity : 2015-07-09 Comcast IP Holdings I, LLC
xfinity

// xihuan : 2015-01-08 Beijing Qihu Keji Co., Ltd.
xihuan

// xin : 2014-12-11 Elegant Leader Limited
xin

// xn--11b4c3d : 2015-01-15 VeriSign Sarl

// xn--1ck2e1b : 2015-02-26 Amazon Registry Services, Inc.

// xn--1qqw23a : 2014-01-09 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--30rr7y : 2014-06-12 Excellent First Limited

// xn--3bst00m : 2013-09-13 Eagle Horizon Limited

// xn--3ds443g : 2013-09-08 TLD REGISTRY LIMITED OY

// xn--3oq18vl8pn36a : 2015-07-02 Volkswagen (China) Investment Co., Ltd.

// xn--3pxu8k : 2015-01-15 VeriSign Sarl

// xn--42c2d9a : 2015-01-15 VeriSign Sarl

// xn--45q11c : 2013-11-21 Zodiac Gemini
Ltd

// xn--4gbrim : 2013-10-04 Fans TLD Limited

// xn--55qw42g : 2013-11-08 China Organizational Name Administration Center

// xn--55qx5d : 2013-11-14 China Internet Network Information Center (CNNIC)

// xn--5su34j936bgsg : 2015-09-03 ShangriLa International Hotel Management Limited

// xn--5tzm5g : 2014-12-22 Global Website TLD Asia Limited

// xn--6frz82g : 2013-09-23 Afilias Limited

// xn--6qq986b3xl : 2013-09-13 Tycoon Treasure Limited

// xn--80adxhks : 2013-12-19 Foundation for Assistance for Internet Technologies and Infrastructure Development (FAITID)

// xn--80aqecdr1a : 2015-10-21 Pontificium Consilium de Comunicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--80asehdb : 2013-07-14 CORE Association

// xn--80aswg : 2013-07-14 CORE Association

// xn--8y0a063a : 2015-03-26 China United Network Communications Corporation Limited

// xn--9dbq2a : 2015-01-15 VeriSign Sarl

//
xn--9et52u : 2014-06-12 RISE VICTORY LIMITED

// xn--9krt00a : 2015-03-12 Sina Corporation

// xn--b4w605ferd : 2014-08-07 Temasek Holdings (Private) Limited

// xn--bck1b9a5dre4c : 2015-02-26 Amazon Registry Services, Inc.

// xn--c1avg : 2013-11-14 Public Interest Registry

// xn--c2br7g : 2015-01-15 VeriSign Sarl

// xn--cck2b3b : 2015-02-26 Amazon Registry Services, Inc.

// xn--cckwcxetd : 2019-12-19 Amazon Registry Services, Inc.

// xn--cg4bki : 2013-09-27 SAMSUNG SDS CO., LTD

// xn--czr694b : 2014-01-16 Internet DotTrademark Organisation Limited

// xn--czrs0t : 2013-12-19 Binky Moon, LLC

// xn--czru2d : 2013-11-21 Zodiac Aquarius Limited

// xn--d1acj3b : 2013-11-20 The Foundation for Network Initiatives “The Smart Internet”

// xn--eckvdtc9d : 2014-12-18 Amazon Registry Services, Inc.

// xn--efvy88h : 2014-08-22 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--fct429k : 2015-04-09 Amazon Registry Services,
Inc.

// xn--fhbei : 2015-01-15 VeriSign Sarl

// xn--fiq228c5hs : 2013-09-08 TLD REGISTRY LIMITED OY

// xn--fiq64b : 2013-10-14 CITIC Group Corporation

// xn--fjq720a : 2014-05-22 Binky Moon, LLC

// xn--flw351e : 2014-07-31 Charleston Road Registry Inc.

// xn--fzys8d69uvgm : 2015-05-14 PCCW Enterprises Limited

// xn--g2xx48c : 2015-01-30 Nawang Heli(Xiamen) Network Service Co., LTD.

// xn--gckr3f0f : 2015-02-26 Amazon Registry Services, Inc.

// xn--gk3at1e : 2015-10-08 Amazon Registry Services, Inc.

// xn--hxt814e : 2014-05-15 Zodiac Taurus Limited

// xn--i1b6b1a6a2e : 2013-11-14 Public Interest Registry

// xn--imr513n : 2014-12-11 Internet DotTrademark Organisation Limited

// xn--io0a7i : 2013-11-14 China Internet Network Information Center (CNNIC)

// xn--j1aef : 2015-01-15 VeriSign Sarl

// xn--jlq480n2rg : 2019-12-19 Amazon Registry Services, Inc.

// xn--jlq61u9w7b : 2015-01-08 Nokia Corporation

// xn--jvr189m
: 2015-02-26 Amazon Registry Services, Inc.

// xn--kcrx77d1x4a : 2014-11-07 Koninklijke Philips N.V.

// xn--kput3i : 2014-02-13 Beijing RITT-Net Technology Development Co., Ltd

// xn--mgba3a3ejt : 2014-11-20 Aramco Services Company

// xn--mgba7c0bbn0a : 2015-05-14 Crescent Holding GmbH

// xn--mgbaakc7dvf : 2015-09-03 Emirates Telecommunications Corporation (trading as Etisalat)

// xn--mgbab2bd : 2013-10-31 CORE Association

// xn--mgbca7dzdo : 2015-07-30 Abu Dhabi Systems and Information Centre

// xn--mgbi4ecexp : 2015-10-21 Pontificium Consilium de Comunicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--mgbt3dhd : 2014-09-04 Asia Green IT System Bilgisayar San. ve Tic. Ltd. Sti.

// xn--mk1bu44c : 2015-01-15 VeriSign Sarl

// xn--mxtq1m : 2014-03-06 Net-Chinese Co., Ltd.

// xn--ngbc5azd : 2013-07-13 International Domain Registry Pty. Ltd.

// xn--ngbe9e0a : 2014-12-04
Kuwait Finance House

// xn--ngbrx : 2015-11-12 League of Arab States

// xn--nqv7f : 2013-11-14 Public Interest Registry

// xn--nqv7fs00ema : 2013-11-14 Public Interest Registry

// xn--nyqy26a : 2014-11-07 Stable Tone Limited

// xn--otu796d : 2017-08-06 Jiang Yu Liang Cai Technology Company Limited

// xn--p1acf : 2013-12-12 Rusnames Limited

// xn--pssy2u : 2015-01-15 VeriSign Sarl

// xn--q9jyb4c : 2013-09-17 Charleston Road Registry Inc.

// xn--qcka1pmc : 2014-07-31 Charleston Road Registry Inc.

// xn--rhqv96g : 2013-09-11 Stable Tone Limited

// xn--rovu88b : 2015-02-26 Amazon Registry Services, Inc.

// xn--ses554g : 2014-01-16 KNET Co., Ltd.

// xn--t60b56a : 2015-01-15 VeriSign Sarl

// xn--tckwe : 2015-01-15 VeriSign Sarl

// xn--tiq49xqyj : 2015-10-21 Pontificium Consilium de Comunicationibus Socialibus (PCCS) (Pontifical Council for Social Communication)

// xn--unup4y : 2013-07-14 Binky Moon, LLC

// xn--vermgensberater-ctb
: 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
vermögensberater

// xn--vermgensberatung-pwb : 2014-06-23 Deutsche Vermögensberatung Aktiengesellschaft DVAG
vermögensberatung

// xn--vhquv : 2013-08-27 Binky Moon, LLC

// xn--vuq861b : 2014-10-16 Beijing Tele-info Network Technology Co., Ltd.

// xn--w4r85el8fhu5dnra : 2015-04-30 Kerry Trading Co. Limited

// xn--w4rs40l : 2015-07-30 Kerry Trading Co. Limited

// xn--xhq521b : 2013-11-14 Guangzhou YU Wei Information Technology Co., Ltd.

// xn--zfr164b : 2013-11-08 China Organizational Name Administration Center

// xyz : 2013-12-05 XYZ.COM LLC
xyz

// yachts : 2014-01-09 XYZ.COM LLC
yachts

// yahoo : 2015-04-02 Yahoo! Domain Services Inc.
yahoo

// yamaxun : 2014-12-18 Amazon Registry Services, Inc.
yamaxun

// yandex : 2014-04-10 Yandex Europe B.V.
yandex

// yodobashi : 2014-11-20 YODOBASHI CAMERA CO.,LTD.
yodobashi

// yoga : 2014-05-29 Minds + Machines Group Limited
yoga

//
yokohama : 2013-12-12 GMO Registry, Inc.
yokohama

// you : 2015-04-09 Amazon Registry Services, Inc.
you

// youtube : 2014-05-01 Charleston Road Registry Inc.
youtube

// yun : 2015-01-08 Beijing Qihu Keji Co., Ltd.
yun

// zappos : 2015-06-25 Amazon Registry Services, Inc.
zappos

// zara : 2014-11-07 Industria de Diseño Textil, S.A. (INDITEX, S.A.)
zara

// zero : 2014-12-18 Amazon Registry Services, Inc.

zero

// zip : 2014-05-08 Charleston Road Registry Inc.
zip

// zone : 2013-11-14 Binky Moon, LLC
zone

// zuerich : 2014-11-07 Kanton Zürich (Canton of Zurich)
zuerich

// ===END ICANN DOMAINS===
// ===BEGIN PRIVATE DOMAINS===
// (Note: these are in alphabetical order by company name)

// 1GB LLC : https://www.1gb.ua/
// Submitted by 1GB LLC <noc@1gb.com.ua>
cc.ua
inf.ua
ltd.ua

// 611coin : https://611project.org/
611.to

// Adobe : https://www.adobe.com/
// Submitted by Ian Boston <boston@adobe.com>
adobeaemcloud.com
adobeaemcloud.net
*.dev.adobeaemcloud.com

// Agnat sp. z o.o.
 : https://domena.pl
// Submitted by Przemyslaw Plewa <it-admin@domena.pl>
beep.pl

// alboto.ca : http://alboto.ca
// Submitted by Anton Avramov <avramov@alboto.ca>
barsy.ca

// Alces Software Ltd : http://alces-software.com
// Submitted by Mark J. Titorenko <mark.titorenko@alces-software.com>
*.compute.estate
*.alces.network

// all-inkl.com : https://all-inkl.com
// Submitted by Werner Kaltofen <wk@all-inkl.com>
kasserver.com

// Altervista: https://www.altervista.org
// Submitted by Carlo Cannas <tech_staff@altervista.it>
altervista.org

// alwaysdata : https://www.alwaysdata.com
// Submitted by Cyril <admin@alwaysdata.com>
alwaysdata.net

// Amazon CloudFront : https://aws.amazon.com/cloudfront/
// Submitted by Donavan Miller <donavanm@amazon.com>
cloudfront.net

// Amazon Elastic Compute Cloud : https://aws.amazon.com/ec2/
// Submitted by Luke Wells <psl-maintainers@amazon.com>
*.compute.amazonaws.com
*.compute-1.amazonaws.com
*.compute.amazonaws.com.cn
us-east-1.amazonaws.com

//
 Amazon Elastic Beanstalk : https://aws.amazon.com/elasticbeanstalk/
// Submitted by Luke Wells <psl-maintainers@amazon.com>
cn-north-1.eb.amazonaws.com.cn
cn-northwest-1.eb.amazonaws.com.cn
elasticbeanstalk.com
ap-northeast-1.elasticbeanstalk.com
ap-northeast-2.elasticbeanstalk.com
ap-northeast-3.elasticbeanstalk.com
ap-south-1.elasticbeanstalk.com
ap-southeast-1.elasticbeanstalk.com
ap-southeast-2.elasticbeanstalk.com
ca-central-1.elasticbeanstalk.com
eu-central-1.elasticbeanstalk.com
eu-west-1.elasticbeanstalk.com
eu-west-2.elasticbeanstalk.com
eu-west-3.elasticbeanstalk.com
sa-east-1.elasticbeanstalk.com
us-east-1.elasticbeanstalk.com
us-east-2.elasticbeanstalk.com
us-gov-west-1.elasticbeanstalk.com
us-west-1.elasticbeanstalk.com
us-west-2.elasticbeanstalk.com

// Amazon Elastic Load Balancing : https://aws.amazon.com/elasticloadbalancing/
// Submitted by Luke Wells <psl-maintainers@amazon.com>
*.elb.amazonaws.com
*.elb.amazonaws.com.cn

// Amazon S3 : https://aws.amazon.com/s3/
//
Submitted by Luke Wells <psl-maintainers@amazon.com>
s3.amazonaws.com
s3-ap-northeast-1.amazonaws.com
s3-ap-northeast-2.amazonaws.com
s3-ap-south-1.amazonaws.com
s3-ap-southeast-1.amazonaws.com
s3-ap-southeast-2.amazonaws.com
s3-ca-central-1.amazonaws.com
s3-eu-central-1.amazonaws.com
s3-eu-west-1.amazonaws.com
s3-eu-west-2.amazonaws.com
s3-eu-west-3.amazonaws.com
s3-external-1.amazonaws.com
s3-fips-us-gov-west-1.amazonaws.com
s3-sa-east-1.amazonaws.com
s3-us-gov-west-1.amazonaws.com
s3-us-east-2.amazonaws.com
s3-us-west-1.amazonaws.com
s3-us-west-2.amazonaws.com
s3.ap-northeast-2.amazonaws.com
s3.ap-south-1.amazonaws.com
s3.cn-north-1.amazonaws.com.cn
s3.ca-central-1.amazonaws.com
s3.eu-central-1.amazonaws.com
s3.eu-west-2.amazonaws.com
s3.eu-west-3.amazonaws.com
s3.us-east-2.amazonaws.com
s3.dualstack.ap-northeast-1.amazonaws.com
s3.dualstack.ap-northeast-2.amazonaws.com
s3.dualstack.ap-south-1.amazonaws.com
s3.dualstack.ap-southeast-1.amazonaws.com
s3.dualstack.ap-southeast-2.amazonaws.com
s3.dualstack.ca-central-1.amazonaws.com
s3.dualstack.eu-central-1.amazonaws.com
s3.dualstack.eu-west-1.amazonaws.com
s3.dualstack.eu-west-2.amazonaws.com
s3.dualstack.eu-west-3.amazonaws.com
s3.dualstack.sa-east-1.amazonaws.com
s3.dualstack.us-east-1.amazonaws.com
s3.dualstack.us-east-2.amazonaws.com
s3-website-us-east-1.amazonaws.com
s3-website-us-west-1.amazonaws.com
s3-website-us-west-2.amazonaws.com
s3-website-ap-northeast-1.amazonaws.com
s3-website-ap-southeast-1.amazonaws.com

s3-website-ap-southeast-2.amazonaws.com
s3-website-eu-west-1.amazonaws.com
s3-website-sa-east-1.amazonaws.com
s3-website.ap-northeast-2.amazonaws.com
s3-website.ap-south-1.amazonaws.com
s3-website.ca-central-1.amazonaws.com
s3-website.eu-central-1.amazonaws.com
s3-website.eu-west-2.amazonaws.com
s3-website.eu-west-3.amazonaws.com
s3-website.us-east-2.amazonaws.com

//
Amsterdam Wireless: https://www.amsterdamwireless.nl/
// Submitted by Imre Jonk <hostmaster@amsterdamwireless.nl>
amsw.nl

// Amune
: https://amune.org/
// Submitted by Team Amune <cert@amune.org>
t3l3p0rt.net
tele.amune.org

// Apigee : https://apigee.com/
// Submitted by Apigee Security Team <security@apigee.com>
apigee.io

// Aptible : https://www.aptible.com/
// Submitted by Thomas Orozco <thomas@aptible.com>
on-aptible.com

// ASEINet : https://www.aseinet.com/
// Submitted by Asei SEKIGUCHI <mail@aseinet.com>
user.aseinet.ne.jp
gv.vc
d.gv.vc

// Asociación Amigos de la Informática "Euskalamiga" : http://encounter.eus/
// Submitted by Hector Martin <marcan@euskalencounter.org>
user.party.eus

// Association potager.org : https://potager.org/
// Submitted by Lunar <jardiniers@potager.org>
pimienta.org
poivron.org
potager.org
sweetpepper.org

// ASUSTOR Inc. : http://www.asustor.com

// Submitted by Vincent Tseng <vincenttseng@asustor.com>
myasustor.com

// AVM : https://avm.de
// Submitted by Andreas Weise <a.weise@avm.de>
myfritz.net

// AW AdvisorWebsites.com Software Inc : https://advisorwebsites.com
// Submitted
by James Kennedy <domains@advisorwebsites.com>
*.awdev.ca
*.advisor.ws

// b-data GmbH : https://www.b-data.io
// Submitted by Olivier Benz <olivier.benz@b-data.ch>
b-data.io

// backplane : https://www.backplane.io
// Submitted by Anthony Voutas <anthony@backplane.io>
backplaneapp.io

// Balena : https://www.balena.io
// Submitted by Petros Angelatos <petrosagg@balena.io>
balena-devices.com

// Banzai Cloud
// Submitted by Janos Matyas <info@banzaicloud.com>
*.banzai.cloud
app.banzaicloud.io
*.backyards.banzaicloud.io

// BetaInABox
// Submitted by Adrian <adrian@betainabox.com>
betainabox.com

// BinaryLane : http://www.binarylane.com
// Submitted by Nathan O'Sullivan <nathan@mammoth.com.au>
bnr.la

// Blackbaud, Inc. : https://www.blackbaud.com
// Submitted by Paul Crowder <paul.crowder@blackbaud.com>
blackbaudcdn.net

// Boomla : https://boomla.com
// Submitted by Tibor Halter <thalter@boomla.com>
boomla.net

// Boxfuse : https://boxfuse.com
// Submitted by Axel Fontaine <axel@boxfuse.com>
boxfuse.io

//
 bplaced : https://www.bplaced.net/
// Submitted by Miroslav Bozic <security@bplaced.net>
square7.ch
bplaced.com
bplaced.de
square7.de
bplaced.net
square7.net

// BrowserSafetyMark
// Submitted by Dave Tharp <browsersafetymark.io@quicinc.com>
browsersafetymark.io

// Bytemark Hosting : https://www.bytemark.co.uk
// Submitted by Paul Cammish <paul.cammish@bytemark.co.uk>
uk0.bigv.io
dh.bytemark.co.uk
vm.bytemark.co.uk

// callidomus : https://www.callidomus.com/
// Submitted by Marcus Popp <admin@callidomus.com>
mycd.eu

// Carrd : https://carrd.co
// Submitted by AJ <aj@carrd.co>
carrd.co
crd.co
uwu.ai

// CentralNic : http://www.centralnic.com/names/domains
// Submitted by registry <gavin.brown@centralnic.com>
ae.org
br.com
cn.com
com.de
com.se
de.com
eu.com
gb.net
hu.net
jp.net
jpn.com
mex.com

ru.com
sa.com
se.net
uk.com
uk.net
us.com
za.bz
za.com

// No longer operated by CentralNic, these entries should be adopted and/or removed by current operators
//
Submitted by Gavin Brown <gavin.brown@centralnic.com>
ar.com
gb.com
hu.com
kr.com
no.com
qc.com
uy.com

// Africa.com Web Solutions Ltd : https://registry.africa.com
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
africa.com

// iDOT Services Limited : http://www.domain.gr.com
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
gr.com

// Radix FZC : http://domains.in.net
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
in.net
web.in

// US REGISTRY LLC : http://us.org
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
us.org

// co.com Registry, LLC : https://registry.co.com
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
co.com

// Roar Domains LLC : https://roar.basketball/
// Submitted by Gavin Brown <gavin.brown@centralnic.com>
aus.basketball
nz.basketball

// BRS Media : https://brsmedia.com/
// Submitted by Gavin Brown <gavin.brown@centralnic.com>

radio.am
radio.fm

// Globe Hosting SRL : https://www.globehosting.com/
// Submitted by Gavin
Brown <gavin.brown@centralnic.com>
co.ro
shop.ro

// c.la : http://www.c.la/
c.la

// certmgr.org : https://certmgr.org
// Submitted by B. Blechschmidt <hostmaster@certmgr.org>
certmgr.org

// Citrix : https://citrix.com
// Submitted by Alex Stoddard <alex.stoddard@citrix.com>
xenapponazure.com

// Civilized Discourse Construction Kit, Inc. : https://www.discourse.org/
// Submitted by Rishabh Nambiar & Michael Brown <team@discourse.org>
discourse.group
discourse.team

// ClearVox : http://www.clearvox.nl/
// Submitted by Leon Rowland <leon@clearvox.nl>
virtueeldomein.nl

// Clever Cloud : https://www.clever-cloud.com/
// Submitted by Quentin Adam <noc@clever-cloud.com>
cleverapps.io

// Clerk : https://www.clerk.dev
// Submitted by Colin Sidoti <colin@clerk.dev>
*.lcl.dev
*.stg.dev

// Clic2000 : https://clic2000.fr
// Submitted by Mathilde Blanchemanche <mathilde@clic2000.fr>
clic2000.net

// Cloud66 : https://www.cloud66.com/
// Submitted by Khash Sajadi <khash@cloud66.com>
c66.me
cloud66.ws
cloud66.zone

//
CloudAccess.net : https://www.cloudaccess.net/
// Submitted by Pawel Panek <noc@cloudaccess.net>
jdevcloud.com
wpdevcloud.com
cloudaccess.host
freesite.host
cloudaccess.net

// cloudControl : https://www.cloudcontrol.com/
// Submitted by Tobias Wilken <tw@cloudcontrol.com>
cloudcontrolled.com
cloudcontrolapp.com

// Cloudera, Inc. : https://www.cloudera.com/
// Submitted by Philip Langdale <security@cloudera.com>
cloudera.site

// Cloudflare, Inc. : https://www.cloudflare.com/
// Submitted by Cloudflare Team <publicsuffixlist@cloudflare.com>
pages.dev
trycloudflare.com
workers.dev

// Clovyr : https://clovyr.io
// Submitted by Patrick Nielsen <patrick@clovyr.io>
wnext.app

// co.ca : http://registry.co.ca/
co.ca

// Co & Co : https://co-co.nl/
// Submitted by Govert Versluis <govert@co-co.nl>
*.otap.co

// i-registry s.r.o. : http://www.i-registry.cz/
// Submitted by Martin Semrad <semrad@i-registry.cz>
co.cz

// CDN77.com : http://www.cdn77.com
// Submitted by
Jan Krpes <jan.krpes@cdn77.com>
c.cdn77.org
cdn77-ssl.net
r.cdn77.net
rsc.cdn77.org
ssl.origin.cdn77-secure.org

// Cloud DNS Ltd : http://www.cloudns.net
// Submitted by Aleksander Hristov <noc@cloudns.net>
cloudns.asia
cloudns.biz
cloudns.club
cloudns.cc
cloudns.eu
cloudns.in
cloudns.info
cloudns.org
cloudns.pro
cloudns.pw
cloudns.us

// Cloudeity Inc : https://cloudeity.com
// Submitted by Stefan Dimitrov <contact@cloudeity.com>
cloudeity.net

// CNPY : https://cnpy.gdn
// Submitted by Angelo Gladding <angelo@lahacker.net>
cnpy.gdn

// CoDNS B.V.
co.nl
co.no

// Combell.com : https://www.combell.com
// Submitted by Thomas Wouters <thomas.wouters@combellgroup.com>
webhosting.be
hosting-cluster.nl

// Coordination Center for TLD RU and XN--P1AI : https://cctld.ru/en/domains/domens_ru/reserved/
// Submitted by George Georgievsky <gug@cctld.ru>
ac.ru
edu.ru
gov.ru
int.ru
mil.ru
test.ru

// COSIMO GmbH : http://www.cosimo.de
// Submitted by Rene Marticke <rmarticke@cosimo.de>
dyn.cosidns.de
dynamisches-dns.de
dnsupdater.de
internet-dns.de
l-o-g-i-n.de
dynamic-dns.info

feste-ip.net
knx-server.net
static-access.net

//
Craynic, s.r.o. : http://www.craynic.com/
// Submitted by Ales Krajnik <ales.krajnik@craynic.com>
realm.cz

// Cryptonomic : https://cryptonomic.net/
// Submitted by Andrew Cady <public-suffix-list@cryptonomic.net>
*.cryptonomic.net

// Cupcake : https://cupcake.io/
// Submitted by Jonathan Rudenberg <jonathan@cupcake.io>
cupcake.is

// Curv UG : https://curv-labs.de/
// Submitted by Marvin Wiesner <Marvin@curv-labs.de>
curv.dev

// Customer OCI - Oracle Dyn https://cloud.oracle.com/home https://dyn.com/dns/
// Submitted by Gregory Drake <support@dyn.com>
// Note: This is intended to also include customer-oci.com due to wildcards implicitly including the current label
*.customer-oci.com
*.oci.customer-oci.com
*.ocp.customer-oci.com
*.ocs.customer-oci.com

// cyon GmbH : https://www.cyon.ch/
// Submitted by Dominic Luechinger <dol@cyon.ch>
cyon.link
cyon.site

//
Danger Science Group: https://dangerscience.com/
// Submitted by Skylar MacDonald <skylar@dangerscience.com>
fnwk.site
folionetwork.site
platform0.app

// Daplie, Inc : https://daplie.com
// Submitted by AJ ONeal <aj@daplie.com>
daplie.me
localhost.daplie.me

// Datto, Inc. : https://www.datto.com/
// Submitted by Philipp Heckel <ph@datto.com>

dattolocal.com
dattorelay.com
dattoweb.com
mydatto.com
dattolocal.net
mydatto.net

// Dansk.net : http://www.dansk.net/
// Submitted by Anani Voule <digital@digital.co.dk>
biz.dk
co.dk
firm.dk
reg.dk
store.dk

// dappnode.io : https://dappnode.io/
// Submitted by Abel Boldu / DAppNode Team <community@dappnode.io>
dyndns.dappnode.io

// dapps.earth : https://dapps.earth/
// Submitted by Daniil Burdakov <icqkill@gmail.com>
*.dapps.earth
*.bzz.dapps.earth

// Dark, Inc. : https://darklang.com
// Submitted by Paul Biggar <ops@darklang.com>
builtwithdark.com

// Datawire, Inc : https://www.datawire.io
// Submitted by Richard Li <secalert@datawire.io>
edgestack.me

//
Debian : https://www.debian.org/
// Submitted by Peter Palfrader / Debian Sysadmin Team <dsa-publicsuffixlist@debian.org>
debian.net

// deSEC : https://desec.io/
// Submitted by Peter Thomassen <peter@desec.io>
dedyn.io

// DNS Africa Ltd https://dns.business
// Submitted by Calvin Browne <calvin@dns.business>
jozi.biz

// DNShome : https://www.dnshome.de/
// Submitted by Norbert Auler <mail@dnshome.de>
dnshome.de

// DotArai : https://www.dotarai.com/
// Submitted by Atsadawat Netcharadsang <atsadawat@dotarai.co.th>
online.th
shop.th

// DrayTek Corp. : https://www.draytek.com/
// Submitted by Paul Fang <mis@draytek.com>
drayddns.com

// DreamHost : http://www.dreamhost.com/
// Submitted by Andrew Farmer <andrew.farmer@dreamhost.com>
dreamhosters.com

// Drobo : http://www.drobo.com/
// Submitted by Ricardo Padilha <rpadilha@drobo.com>
mydrobo.com

// Drud Holdings, LLC. : https://www.drud.com/
// Submitted by Kevin Bridges <kevin@drud.com>
drud.io
drud.us

//
DuckDNS : http://www.duckdns.org/
// Submitted by Richard Harper <richard@duckdns.org>
duckdns.org

// Bip : https://bip.sh
// Submitted by Joel Kennedy <joel@bip.sh>
bip.sh

// bitbridge.net : Submitted by Craig Welch, abeliidev@gmail.com
bitbridge.net

// dy.fi : http://dy.fi/
// Submitted by Heikki Hannikainen <hessu@hes.iki.fi>
dy.fi
tunk.org

// DynDNS.com : http://www.dyndns.com/services/dns/dyndns/
dyndns-at-home.com
dyndns-at-work.com
dyndns-blog.com
dyndns-free.com
dyndns-home.com
dyndns-ip.com
dyndns-mail.com

dyndns-office.com
dyndns-pics.com
dyndns-remote.com
dyndns-server.com
dyndns-web.com
dyndns-wiki.com
dyndns-work.com
dyndns.biz
dyndns.info
dyndns.org
dyndns.tv
at-band-camp.net
ath.cx
barrel-of-knowledge.info
barrell-of-knowledge.info
better-than.tv
blogdns.com
blogdns.net
blogdns.org
blogsite.org
boldlygoingnowhere.org
broke-it.net
buyshouses.net
cechire.com
dnsalias.com
dnsalias.net
dnsalias.org
dnsdojo.com
dnsdojo.net
dnsdojo.org
does-it.net
doesntexist.com
doesntexist.org
dontexist.com
dontexist.net
dontexist.org
doomdns.com
doomdns.org
dvrdns.org
dyn-o-saur.com
dynalias.com
dynalias.net
dynalias.org
dynathome.net
dyndns.ws
endofinternet.net
endofinternet.org
endoftheinternet.org

est-a-la-maison.com
est-a-la-masion.com
est-le-patron.com
est-mon-blogueur.com
for-better.biz
for-more.biz
for-our.info
for-some.biz
for-the.biz
forgot.her.name
forgot.his.name
from-ak.com
from-al.com
from-ar.com
from-az.net
from-ca.com
from-co.net
from-ct.com
from-dc.com
from-de.com
from-fl.com
from-ga.com
from-hi.com
from-ia.com
from-id.com
from-il.com
from-in.com
from-ks.com
from-ky.com
from-la.net
from-ma.com
from-md.com
from-me.org
from-mi.com
from-mn.com
from-mo.com
from-ms.com
from-mt.com
from-nc.com
from-nd.com
from-ne.com
from-nh.com
from-nj.com
from-nm.com
from-nv.com
from-ny.net
from-oh.com
from-ok.com

from-or.com
from-pa.com
from-pr.com
from-ri.com
from-sc.com
from-sd.com
from-tn.com
from-tx.com
from-ut.com
from-va.com
from-vt.com
from-wa.com
from-wi.com
from-wv.com
from-wy.com
ftpaccess.cc
fuettertdasnetz.de
game-host.org
game-server.cc
getmyip.com
gets-it.net
go.dyndns.org
gotdns.com
gotdns.org
groks-the.info
groks-this.info
ham-radio-op.net
here-for-more.info
hobby-site.com
hobby-site.org
home.dyndns.org
homedns.org
homeftp.net
homeftp.org
homeip.net
homelinux.com
homelinux.net
homelinux.org
homeunix.com
homeunix.net
homeunix.org
iamallama.com
in-the-band.net
is-a-anarchist.com
is-a-blogger.com
is-a-bookkeeper.com
is-a-bruinsfan.org
is-a-bulls-fan.com

is-a-candidate.org
is-a-caterer.com
is-a-celticsfan.org
is-a-chef.com
is-a-chef.net
is-a-chef.org
is-a-conservative.com
is-a-cpa.com
is-a-cubicle-slave.com
is-a-democrat.com
is-a-designer.com
is-a-doctor.com
is-a-financialadvisor.com
is-a-geek.com
is-a-geek.net
is-a-geek.org
is-a-green.com
is-a-guru.com
is-a-hard-worker.com
is-a-hunter.com
is-a-knight.org
is-a-landscaper.com
is-a-lawyer.com
is-a-liberal.com
is-a-libertarian.com
is-a-linux-user.org
is-a-llama.com
is-a-musician.com
is-a-nascarfan.com
is-a-nurse.com
is-a-painter.com
is-a-patsfan.org
is-a-personaltrainer.com
is-a-photographer.com
is-a-player.com
is-a-republican.com
is-a-rockstar.com
is-a-socialist.com
is-a-soxfan.org
is-a-student.com
is-a-teacher.com
is-a-techie.com
is-a-therapist.com
is-an-accountant.com
is-an-actor.com
is-an-actress.com
is-an-anarchist.com
is-an-artist.com

is-an-engineer.com
is-an-entertainer.com
is-by.us
is-certified.com
is-found.org
is-gone.com
is-into-anime.com
is-into-cars.com
is-into-cartoons.com
is-into-games.com
is-leet.com
is-lost.org
is-not-certified.com
is-saved.org
is-slick.com
is-uberleet.com
is-very-bad.org
is-very-evil.org
is-very-good.org
is-very-nice.org
is-very-sweet.org
is-with-theband.com
isa-geek.com
isa-geek.net
isa-geek.org
isa-hockeynut.com
issmarterthanyou.com
isteingeek.de
istmein.de
kicks-ass.net
kicks-ass.org
knowsitall.info
land-4-sale.us
lebtimnetz.de
leitungsen.de
likes-pie.com
likescandy.com
merseine.nu
mine.nu
misconfused.org
mypets.ws
myphotos.cc
neat-url.com
office-on-the.net
on-the-web.tv
podzone.net
podzone.org
readmyblog.org

saves-the-whales.com
scrapper-site.net
scrapping.cc
selfip.biz
selfip.com
selfip.info
selfip.net
selfip.org
sells-for-less.com
sells-for-u.com
sells-it.net
sellsyourhome.org
servebbs.com
servebbs.net
servebbs.org
serveftp.net
serveftp.org
servegame.org
shacknet.nu
simple-url.com
space-to-rent.com
stuff-4-sale.org
stuff-4-sale.us
teaches-yoga.com
thruhere.net
traeumtgerade.de
webhop.biz
webhop.info
webhop.net
webhop.org
worse-than.tv
writesthisblog.com

//
ddnss.de : https://www.ddnss.de/
// Submitted by Robert Niedziela <webmaster@ddnss.de>
ddnss.de
dyn.ddnss.de
dyndns.ddnss.de
dyndns1.de
dyn-ip24.de
home-webserver.de
dyn.home-webserver.de
myhome-server.de
ddnss.org

// Definima : http://www.definima.com/
// Submitted by Maxence Bitterli <maxence@definima.com>

definima.net
definima.io

// dnstrace.pro : https://dnstrace.pro/
// Submitted by Chris Partridge <chris@partridge.tech>
bci.dnstrace.pro

// Dynu.com
 : https://www.dynu.com/
// Submitted by Sue Ye <sue@dynu.com>
ddnsfree.com
ddnsgeek.com
giize.com
gleeze.com
kozow.com
loseyourip.com
ooguy.com
theworkpc.com
casacam.net
dynu.net
accesscam.org
camdvr.org
freeddns.org
mywire.org
webredirect.org
myddns.rocks
blogsite.xyz

// dynv6 : https://dynv6.com
// Submitted by Dominik Menke <dom@digineo.de>
dynv6.net

// E4YOU spol. s.r.o. : https://e4you.cz/
// Submitted by Vladimir Dudr <info@e4you.cz>
e4.cz

// En root : https://en-root.org
// Submitted by Emmanuel Raviart <emmanuel@raviart.com>
en-root.fr

// Enalean SAS: https://www.enalean.com
// Submitted by Thomas Cottier <thomas.cottier@enalean.com>
mytuleap.com

// ECG Robotics, Inc: https://ecgrobotics.org
// Submitted by <frc1533@ecgrobotics.org>
onred.one
staging.onred.one

// One.com: https://www.one.com/
// Submitted by Jacob Bunk Nielsen <jbn@one.com>
service.one

// Enonic : http://enonic.com/
// Submitted by Erik Kaareng-Sunde <esu@enonic.com>
enonic.io
customer.enonic.io

// EU.org
https://eu.org/
// Submitted by Pierre Beyssac <hostmaster@eu.org>
eu.org
al.eu.org
asso.eu.org
at.eu.org
au.eu.org
be.eu.org
bg.eu.org
ca.eu.org
cd.eu.org
ch.eu.org
cn.eu.org
cy.eu.org
cz.eu.org
de.eu.org
dk.eu.org
edu.eu.org
ee.eu.org
es.eu.org
fi.eu.org
fr.eu.org
gr.eu.org
hr.eu.org
hu.eu.org
ie.eu.org
il.eu.org
in.eu.org
int.eu.org
is.eu.org
it.eu.org
jp.eu.org
kr.eu.org
lt.eu.org
lu.eu.org
lv.eu.org
mc.eu.org

me.eu.org
mk.eu.org
mt.eu.org
my.eu.org
net.eu.org
ng.eu.org
nl.eu.org
no.eu.org
nz.eu.org
paris.eu.org
pl.eu.org
pt.eu.org
q-a.eu.org
ro.eu.org
ru.eu.org
se.eu.org
si.eu.org
sk.eu.org
tr.eu.org
uk.eu.org
us.eu.org

// Evennode : http://www.evennode.com/
// Submitted by Michal Kralik <support@evennode.com>
eu-1.evennode.com
eu-2.evennode.com
eu-3.evennode.com
eu-4.evennode.com
us-1.evennode.com
us-2.evennode.com
us-3.evennode.com
us-4.evennode.com

// eDirect Corp. : https://hosting.url.com.tw/
// Submitted by C.S. chang <cschang@corp.url.com.tw>
twmail.cc
twmail.net
twmail.org
mymailer.com.tw
url.tw

//
Fabrica Technologies, Inc. : https://www.fabrica.dev/
// Submitted by Eric Jiang <eric@fabrica.dev>
onfabrica.com

// Facebook, Inc.
// Submitted by Peter Ruibal <public-suffix@fb.com>

apps.fbsbx.com

// FAITID : https://faitid.org/
// Submitted by Maxim Alzoba <tech.contact@faitid.org>
// https://www.flexireg.net/stat_info
ru.net
adygeya.ru
bashkiria.ru
bir.ru
cbg.ru
com.ru
dagestan.ru
grozny.ru
kalmykia.ru
kustanai.ru
marine.ru
mordovia.ru
msk.ru
mytis.ru
nalchik.ru
nov.ru
pyatigorsk.ru
spb.ru
vladikavkaz.ru
vladimir.ru
abkhazia.su
adygeya.su
aktyubinsk.su
arkhangelsk.su
armenia.su
ashgabad.su
azerbaijan.su
balashov.su
bashkiria.su
bryansk.su
bukhara.su
chimkent.su
dagestan.su
east-kazakhstan.su
exnet.su
georgia.su
grozny.su
ivanovo.su
jambyl.su
kalmykia.su
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workisboring.com
3utilities.com
bounceme.net
ddns.net
ddnsking.com
gotdns.ch
hopto.org
myftp.biz
myftp.org
myvnc.com
no-ip.biz
no-ip.info
no-ip.org
noip.me
redirectme.net
servebeer.com
serveblog.net
servecounterstrike.com
serveftp.com
servegame.com
servehalflife.com
servehttp.com
serveirc.com
serveminecraft.net
servemp3.com
servepics.com
servequake.com
sytes.net
webhop.me
zapto.org

//
NodeArt : https://nodeart.io
// Submitted by Konstantin Nosov <Nosov@nodeart.io>

stage.nodeart.io

// Nodum B.V. : https://nodum.io/
// Submitted by Wietse Wind <hello+publicsuffixlist@nodum.io>
nodum.co
nodum.io

// Nucleos Inc. : https://nucleos.com
// Submitted by Piotr Zduniak <piotr@nucleos.com>
pcloud.host

// NYC.mn : http://www.information.nyc.mn
// Submitted by Matthew Brown <mattbrown@nyc.mn>
nyc.mn

// NymNom : https://nymnom.com/
// Submitted by NymNom <psl@nymnom.com>
nom.ae
nom.af
nom.ai
nom.al
nym.by
nom.bz
nym.bz
nom.cl
nym.ec
nom.gd
nom.ge
nom.gl
nym.gr
nom.gt
nym.gy
nym.hk
nom.hn
nym.ie
nom.im
nom.ke
nym.kz
nym.la
nym.lc
nom.li
nym.li
nym.lt
nym.lu
nom.lv
nym.me
nom.mk
nym.mn

nym.mx
nom.nu
nym.nz
nym.pe
nym.pt
nom.pw
nom.qa
nym.ro
nom.rs
nom.si
nym.sk
nom.st
nym.su
nym.sx
nom.tj
nym.tw
nom.ug
nom.uy
nom.vc
nom.vg

//
Observable, Inc. : https://observablehq.com
// Submitted by Mike Bostock <dns@observablehq.com>
static.observableusercontent.com

// Octopodal Solutions, LLC. : https://ulterius.io/
// Submitted by Andrew Sampson <andrew@ulterius.io>
cya.gg

// OMG.LOL : <https://omg.lol>
// Submitted by Adam Newbold <adam@omg.lol>
omg.lol

// Omnibond Systems, LLC. : https://www.omnibond.com
// Submitted by Cole Estep <cole@omnibond.com>
cloudycluster.net

// OmniWe Limited: https://omniwe.com
// Submitted by Vicary Archangel <vicary@omniwe.com>
omniwe.site

// One Fold Media : http://www.onefoldmedia.com/
// Submitted by Eddie Jones <eddie@onefoldmedia.com>
nid.io

// Open Social : https://www.getopensocial.com/
// Submitted by Alexander Varwijk <security@getopensocial.com>

opensocial.site

//
OpenCraft GmbH : http://opencraft.com/
// Submitted by Sven Marnach <sven@opencraft.com>
opencraft.hosting

// Opera Software, A.S.A.
// Submitted by Yngve Pettersen <yngve@opera.com>
operaunite.com

// Oursky Limited : https://skygear.io/
// Submited by Skygear Developer <hello@skygear.io>
skygearapp.com

// OutSystems
// Submitted by Duarte Santos <domain-admin@outsystemscloud.com>
outsystemscloud.com

// OwnProvider GmbH: http://www.ownprovider.com
// Submitted by Jan Moennich <jan.moennich@ownprovider.com>
ownprovider.com
own.pm

// OwO : https://whats-th.is/
// Submitted by Dean Sheather <dean@deansheather.com>
*.owo.codes

// OX : http://www.ox.rs
// Submitted by Adam Grand <webmaster@mail.ox.rs>
ox.rs

// oy.lc
// Submitted by Charly Coste <changaco@changaco.oy.lc>
oy.lc

// Pagefog : https://pagefog.com/
// Submitted by Derek Myers <derek@pagefog.com>
pgfog.com

// Pagefront : https://www.pagefronthq.com/
// Submitted by Jason Kriss <jason@pagefronthq.com>
pagefrontapp.com

//
PageXL : https://pagexl.com
// Submitted by Yann Guichard <yann@pagexl.com>
pagexl.com

// pcarrier.ca Software Inc: https://pcarrier.ca/
// Submitted by Pierre Carrier <pc@rrier.ca>
bar0.net
bar1.net
bar2.net
rdv.to

// .pl domains (grandfathered)
art.pl
gliwice.pl
krakow.pl
poznan.pl
wroc.pl
zakopane.pl

// Pantheon Systems, Inc. : https://pantheon.io/
// Submitted by Gary Dylina <gary@pantheon.io>
pantheonsite.io
gotpantheon.com

// Peplink | Pepwave : http://peplink.com/
// Submitted by Steve Leung <steveleung@peplink.com>
mypep.link

// Perspecta : https://perspecta.com/
// Submitted by Kenneth Van Alstyne <kvanalstyne@perspecta.com>
perspecta.cloud

// Planet-Work : https://www.planet-work.com/
// Submitted by Frédéric VANNIÈRE <f.vanniere@planet-work.com>
on-web.fr

// Platform.sh : https://platform.sh
// Submitted by Nikola Kotur <nikola@platform.sh>
bc.platform.sh
ent.platform.sh
eu.platform.sh
us.platform.sh
*.platformsh.site

// Platter:
https://platter.dev
// Submitted by Patrick Flor <patrick@platter.dev>
platter-app.com
platter-app.dev
platterp.us

// Plesk : https://www.plesk.com/
// Submitted by Anton Akhtyamov <program-managers@plesk.com>
pdns.page
plesk.page
pleskns.com

// Port53 : https://port53.io/
// Submitted by Maximilian Schieder <maxi@zeug.co>
dyn53.io

// Positive Codes Technology Company : http://co.bn/faq.html
// Submitted by Zulfais <pc@co.bn>
co.bn

// prgmr.com : https://prgmr.com/
// Submitted by Sarah Newman <owner@prgmr.com>
xen.prgmr.com

// priv.at : http://www.nic.priv.at/
// Submitted by registry <lendl@nic.at>
priv.at

// privacytools.io : https://www.privacytools.io/
// Submitted by Jonah Aragon <jonah@privacytools.io>
prvcy.page

// Protocol Labs : https://protocol.ai/
// Submitted by Michael Burns <noc@protocol.ai>
*.dweb.link

// Protonet GmbH : http://protonet.io
// Submitted by Martin Meier <admin@protonet.io>
protonet.io

// Publication Presse Communication SARL : https://ppcom.fr
//
Submitted by Yaacov Akiba Slama <admin@chirurgiens-dentistes-en-france.fr>
chirurgiens-dentistes-en-france.fr
byen.site

// pubtls.org: https://www.pubtls.org
// Submitted by Kor Nielsen <kor@pubtls.org>
pubtls.org

// Qualifio : https://qualifio.com/
// Submitted by Xavier De Cock <xdecock@gmail.com>
qualifioapp.com

// QuickBackend: https://www.quickbackend.com
// Submitted by Dani Biro <dani@pymet.com>
qbuser.com

// Redstar Consultants : https://www.redstarconsultants.com/
// Submitted by Jons Slemmer <jons@redstarconsultants.com>
instantcloud.cn

// Russian Academy of Sciences
// Submitted by Tech Support <support@rasnet.ru>
ras.ru

// QA2
// Submitted by Daniel Dent (https://www.danieldent.com/)
qa2.com

// QCX
// Submitted by Cassandra Beelen <cassandra@beelen.one>
qcx.io
*.sys.qcx.io

// QNAP System Inc : https://www.qnap.com
// Submitted by Nick Chang <nickchang@qnap.com>
dev-myqnapcloud.com
alpha-myqnapcloud.com
myqnapcloud.com

// Quip : https://quip.com
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*.quipelements.com

// Qutheory LLC : http://qutheory.io
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vapor.cloud
vaporcloud.io

// Rackmaze LLC : https://www.rackmaze.com
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rackmaze.com
rackmaze.net

// Rakuten Games, Inc : https://dev.viberplay.io
// Submitted by Joshua Zhang <public-suffix@rgames.jp>
g.vbrplsbx.io

// Rancher Labs, Inc : https://rancher.com
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*.on-k3s.io
*.on-rancher.cloud
*.on-rio.io

// Read The Docs, Inc : https://www.readthedocs.org
// Submitted by David Fischer <team@readthedocs.org>
readthedocs.io

// Red Hat, Inc. OpenShift : https://openshift.redhat.com/
// Submitted by Tim Kramer <tkramer@rhcloud.com>
rhcloud.com

// Render : https://render.com
// Submitted by Anurag Goel <dev@render.com>
app.render.com
onrender.com

// Repl.it : https://repl.it
// Submitted by Mason Clayton <mason@repl.it>
repl.co
repl.run

// Resin.io
 : https://resin.io
// Submitted by Tim Perry <tim@resin.io>
resindevice.io
devices.resinstaging.io

// RethinkDB : https://www.rethinkdb.com/
// Submitted by Chris Kastorff <info@rethinkdb.com>
hzc.io

// Revitalised Limited : http://www.revitalised.co.uk
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wellbeingzone.eu
ptplus.fit
wellbeingzone.co.uk

// Rochester Institute of Technology : http://www.rit.edu/
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git-pages.rit.edu

// Sandstorm Development Group, Inc. : https://sandcats.io/
// Submitted by Asheesh Laroia <asheesh@sandstorm.io>
sandcats.io

// SBE network solutions GmbH : https://www.sbe.de/
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logoip.de
logoip.com

// schokokeks.org GbR : https://schokokeks.org/
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schokokeks.net

// Scottish Government: https://www.gov.scot
// Submitted by Martin Ellis <martin.ellis@gov.scot>
gov.scot

// Scry Security : http://www.scrysec.com
//
Submitted by Shante Adam <shante@skyhat.io>
scrysec.com

// Securepoint GmbH : https://www.securepoint.de
// Submitted by Erik Anders <erik.anders@securepoint.de>
firewall-gateway.com
firewall-gateway.de
my-gateway.de
my-router.de
spdns.de
spdns.eu
firewall-gateway.net
my-firewall.org
myfirewall.org
spdns.org

// Seidat : https://www.seidat.com
// Submitted by Artem Kondratev <accounts@seidat.com>
seidat.net

// Senseering GmbH : https://www.senseering.de
// Submitted by Felix Mönckemeyer <f.moenckemeyer@senseering.de>
senseering.net

// Service Online LLC : http://drs.ua/
// Submitted by Serhii Bulakh <support@drs.ua>
biz.ua
co.ua
pp.ua

// ShiftEdit : https://shiftedit.net/
// Submitted by Adam Jimenez <adam@shiftcreate.com>
shiftedit.io

// Shopblocks : http://www.shopblocks.com/

// Submitted by Alex Bowers <alex@shopblocks.com>
myshopblocks.com

// Shopit : https://www.shopitcommerce.com/
// Submitted by Craig McMahon <craig@shopitcommerce.com>
shopitsite.com

// shopware AG : https://shopware.com
//
Submitted by Jens Küper <cloud@shopware.com>
shopware.store

// Siemens Mobility GmbH
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mo-siemens.io

// SinaAppEngine : http://sae.sina.com.cn/
// Submitted by SinaAppEngine <saesupport@sinacloud.com>
1kapp.com
appchizi.com
applinzi.com
sinaapp.com
vipsinaapp.com

// Siteleaf : https://www.siteleaf.com/
// Submitted by Skylar Challand <support@siteleaf.com>
siteleaf.net

// Skyhat : http://www.skyhat.io
// Submitted by Shante Adam <shante@skyhat.io>
bounty-full.com
alpha.bounty-full.com
beta.bounty-full.com

// Small Technology Foundation : https://small-tech.org
// Submitted by Aral Balkan <aral@small-tech.org>
small-web.org

// Stackhero : https://www.stackhero.io
// Submitted by Adrien Gillon <adrien+public-suffix-list@stackhero.io>
stackhero-network.com

// staticland : https://static.land
// Submitted by Seth Vincent <sethvincent@gmail.com>
static.land
dev.static.land
sites.static.land

// Sony Interactive
Entertainment LLC : https://sie.com/
// Submitted by David Coles <david.coles@sony.com>
playstation-cloud.com

// SourceLair PC : https://www.sourcelair.com
// Submitted by Antonis Kalipetis <akalipetis@sourcelair.com>
apps.lair.io
*.stolos.io

// SpaceKit : https://www.spacekit.io/
// Submitted by Reza Akhavan <spacekit.io@gmail.com>
spacekit.io

// SpeedPartner GmbH: https://www.speedpartner.de/
// Submitted by Stefan Neufeind <info@speedpartner.de>
customer.speedpartner.de

// Standard Library : https://stdlib.com
// Submitted by Jacob Lee <jacob@stdlib.com>
api.stdlib.com

// Storj Labs Inc. : https://storj.io/
// Submitted by Philip Hutchins <hostmaster@storj.io>
storj.farm

// Studenten Net Twente : http://www.snt.utwente.nl/
// Submitted by Silke Hofstra <syscom@snt.utwente.nl>
utwente.io

// Student-Run Computing Facility : https://www.srcf.net/
// Submitted by Edwin Balani <sysadmins@srcf.net>
soc.srcf.net
user.srcf.net

// Sub 6 Limited: http://www.sub6.com
// Submitted by
Dan Miller <dm@sub6.com>
temp-dns.com

// Swisscom Application Cloud: https://developer.swisscom.com
// Submitted by Matthias.Winzeler <matthias.winzeler@swisscom.com>
applicationcloud.io
scapp.io

// Symfony, SAS : https://symfony.com/
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*.s5y.io

*.sensiosite.cloud

// Syncloud : https://syncloud.org
// Submitted by Boris Rybalkin <syncloud@syncloud.it>
syncloud.it

// Synology, Inc. : https://www.synology.com/
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diskstation.me
dscloud.biz
dscloud.me
dscloud.mobi
dsmynas.com
dsmynas.net
dsmynas.org
familyds.com
familyds.net
familyds.org
i234.me
myds.me
synology.me
vpnplus.to
direct.quickconnect.to

// TAIFUN Software AG : http://taifun-software.de
// Submitted by Bjoern Henke <dev-server@taifun-software.de>
taifun-dns.de

// TASK geographical domains (www.task.gda.pl/uslugi/dns)
gda.pl
gdansk.pl
gdynia.pl
med.pl
sopot.pl

// Teckids e.V. : https://www.teckids.org
// Submitted by Dominik
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edugit.org

// Telebit : https://telebit.cloud
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telebit.app
telebit.io
*.telebit.xyz

// The Gwiddle Foundation : https://gwiddlefoundation.org.uk
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gwiddle.co.uk

// Thingdust AG : https://thingdust.com/
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thingdustdata.com
cust.dev.thingdust.io
cust.disrec.thingdust.io
cust.prod.thingdust.io
cust.testing.thingdust.io
*.firenet.ch
*.svc.firenet.ch

// Tlon.io : https://tlon.io
// Submitted by Mark Staarink <mark@tlon.io>
arvo.network
azimuth.network
tlon.network

// TownNews.com : http://www.townnews.com
// Submitted by Dustin Ward <dward@townnews.com>
bloxcms.com
townnews-staging.com

// TrafficPlex GmbH : https://www.trafficplex.de/
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12hp.at
2ix.at
4lima.at
lima-city.at
12hp.ch
2ix.ch
4lima.ch
lima-city.ch
trafficplex.cloud
de.cool
12hp.de
2ix.de
4lima.de
lima-city.de
1337.pictures
clan.rip
lima-city.rocks
webspace.rocks
lima.zone

//
TransIP : https://www.transip.nl
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*.transurl.be
*.transurl.eu
*.transurl.nl

// TuxFamily : http://tuxfamily.org
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tuxfamily.org

// TwoDNS : https://www.twodns.de/
// Submitted by TwoDNS-Support <support@two-dns.de>
dd-dns.de
diskstation.eu
diskstation.org
dray-dns.de
draydns.de
dyn-vpn.de
dynvpn.de
mein-vigor.de
my-vigor.de
my-wan.de
syno-ds.de
synology-diskstation.de
synology-ds.de

// Uberspace : https://uberspace.de
// Submitted by Moritz Werner <mwerner@jonaspasche.com>
uber.space
*.uberspace.de

// UDR Limited : http://www.udr.hk.com
// Submitted by registry <hostmaster@udr.hk.com>
hk.com
hk.org
ltd.hk
inc.hk

// United Gameserver GmbH : https://united-gameserver.de
// Submitted by Stefan Schwarz <sysadm@united-gameserver.de>
virtualuser.de
virtual-user.de

//
 urown.net : https://urown.net
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urown.cloud
dnsupdate.info

// .US

// Submitted by Ed Moore <Ed.Moore@lib.de.us>
lib.de.us

// VeryPositive SIA : http://very.lv
// Submitted by Danko Aleksejevs <danko@very.lv>
2038.io

// Vercel, Inc : https://vercel.com/
// Submitted by Connor Davis <security@vercel.com>
vercel.app
vercel.dev
now.sh

// Viprinet Europe GmbH : http://www.viprinet.com
// Submitted by Simon Kissel <hostmaster@viprinet.com>
router.management

// Virtual-Info : https://www.virtual-info.info/
// Submitted by Adnan RIHAN <hostmaster@v-info.info>
v-info.info

// Voorloper.com: https://voorloper.com
// Submitted by Nathan van Bakel <info@voorloper.com>
voorloper.cloud

// Voxel.sh DNS : https://voxel.sh/dns/
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neko.am
nyaa.am
be.ax
cat.ax
es.ax
eu.ax
gg.ax
mc.ax
us.ax
xy.ax
nl.ci
xx.gl
app.gp
blog.gt
de.gt
to.gt
be.gy
cc.hn
blog.kg
io.kg
jp.kg

tv.kg
uk.kg
us.kg
de.ls
at.md
de.md
jp.md
to.md
uwu.nu
indie.porn
vxl.sh
ch.tc
me.tc
we.tc
nyan.to
at.vg
blog.vu
dev.vu
me.vu

//
V.UA Domain Administrator : https://domain.v.ua/
// Submitted by Serhii Rostilo <sergey@rostilo.kiev.ua>
v.ua

// Waffle Computer Inc., Ltd. : https://docs.waffleinfo.com
// Submitted by Masayuki Note <masa@blade.wafflecell.com>
wafflecell.com

// WapBlog.ID : https://www.wapblog.id
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idnblogger.com
indowapblog.com
bloghp.id
wblog.id
wbq.me
fastblog.net

// WebHare bv: https://www.webhare.com/
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// WeDeploy by Liferay, Inc. : https://www.wedeploy.com
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wedeploy.io
wedeploy.me
wedeploy.sh

// Western Digital Technologies, Inc : https://www.wdc.com
// Submitted by Jung Jin <jungseok.jin@wdc.com>
remotewd.com

// WIARD Enterprises : https://wiardweb.com
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pages.wiardweb.com

// Wikimedia
Labs : https://wikitech.wikimedia.org
// Submitted by Arturo Borrero Gonzalez <aborrero@wikimedia.org>
wmflabs.org
toolforge.org
wmcloud.org

// WISP : https://wisp.gg
// Submitted by Stepan Fedotov <stepan@wisp.gg>
panel.gg
daemon.panel.gg

// WoltLab GmbH : https://www.woltlab.com
// Submitted by Tim Düsterhus <security@woltlab.cloud>
myforum.community
community-pro.de
diskussionsbereich.de
community-pro.net
meinforum.net

// www.com.vc : http://www.com.vc
// Submitted by Li Hui <lihui@sinopub.com>
cn.vu

// XenonCloud GbR: https://xenoncloud.net
// Submitted by Julian Uphoff <publicsuffixlist@xenoncloud.net>
half.host

// XnBay Technology : http://www.xnbay.com/
// Submitted by XnBay Developer <developer.xncloud@gmail.com>
xnbay.com
u2.xnbay.com
u2-local.xnbay.com

// XS4ALL Internet bv : https://www.xs4all.nl/
// Submitted by Daniel Mostertman <unixbeheer+publicsuffix@xs4all.net>
cistron.nl
demon.nl
xs4all.space

// Yandex.Cloud LLC: https://cloud.yandex.com
// Submitted by Alexander
Lodin <security+psl@yandex-team.ru>
yandexcloud.net
storage.yandexcloud.net
website.yandexcloud.net

// YesCourse Pty Ltd : https://yescourse.com
// Submitted by Atul Bhouraskar <atul@yescourse.com>
official.academy

// Yola : https://www.yola.com/
// Submitted by Stefano Rivera <stefano@yola.com>
yolasite.com

// Yombo : https://yombo.net
// Submitted by Mitch Schwenk <mitch@yombo.net>
ybo.faith
yombo.me
homelink.one
ybo.party
ybo.review
ybo.science
ybo.trade

// Yunohost : https://yunohost.org
// Submitted by Valentin Grimaud <security@yunohost.org>
nohost.me
noho.st

// ZaNiC : http://www.za.net/
// Submitted by registry <hostmaster@nic.za.net>
za.net
za.org

// Zine EOOD : https://zine.bg/
// Submitted by Martin Angelov <martin@zine.bg>
bss.design

// Zitcom A/S : https://www.zitcom.dk
// Submitted by Emil Stahl <esp@zitcom.dk>
basicserver.io
virtualserver.io
enterprisecloud.nu

// Mintere : https://mintere.com/
// Submitted by Ben Aubin <security@mintere.com>
mintere.site

//
 Cityhost LLC : https://cityhost.ua
// Submitted by Maksym Rivtin <support@cityhost.net.ua>
cx.ua

// WP Engine : https://wpengine.com/
// Submitted by Michael Smith <michael.smith@wpengine.com>
// Submitted by Brandon DuRette <brandon.durette@wpengine.com>
wpenginepowered.com
js.wpenginepowered.com

// Impertrix Solutions : <https://impertrixcdn.com>
// Submitted by Zhixiang Zhao <csuite@impertrix.com>
impertrixcdn.com
impertrix.com

// GignoSystemJapan: http://gsj.bz
// Submitted by GignoSystemJapan <kakutou-ec@gsj.bz>
gsj.bz
// ===END PRIVATE DOMAINS===

Found in path(s):
* /effective-tld-names-1-tar-gz/effective_tld_names.dat
No license file was found, but licenses were detected in source scan.

%{
// Copyright (c) 2012 The Chromium Authors. All rights reserved.
// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.
// Test file used by registry_controlled_domain_unittest.
// We edit this file manually, then run
// gperf -a -L "C++" -C -c -o -t -k '*' -NFindDomain -ZPerfect_Hash_Test1 -P -K name_offset -Q stringpool1 -D
effective_tld_names_unittest1.gperf > effective_tld_names_unittest1.cc
// to generate the perfect hashmap.
%}
struct DomainRule {
 int name_offset;
 int type; // 1: exception, 2: wildcard, 4: private
};
%%
jp, 0
ac.jp, 0
bar.jp, 2
baz.bar.jp, 2
pref.bar.jp, 1
bar.baz.com, 0
c, 2

b.c, 1
no, 0
priv.no, 4
private, 4
xn--fiqs8s, 0
%%

Found in path(s):
* /effective-tld-names-1-tar-gz/effective_tld_names_unittest1.gperf
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Found in path(s):
* /effective-tld-names-1-tar-gz/registry_controlled_domain.h
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```
%{
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// This file is generated by net/tools/tld_cleanup/.
// DO NOT MANUALLY EDIT!
%}
struct DomainRule {
 int name_offset;
 int type;  // flags: 1: exception, 2: wildcard, 4: private
};
%%
0.bg, 0
001www.com, 4
0e.vc, 4
0emm.com, 6
1.bg, 0
12hp.at, 4
12hp.ch, 4
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1kapp.com, 4
2.bg, 0
2000.hu, 0
2038.io, 4
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2ix.ch, 4
2ix.de, 4
3.bg, 0
32-b.it, 4
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4.bg, 0
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4u.com, 4
5.bg, 0
6.bg, 0
611.to, 4
64-b.it, 4
7.bg, 0
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// version.

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// Test file used by registry_controlled_domain_unittest.
// We edit this file manually, then run
// gperf -a -L "C++" -C -c -o -t -k '*' -NFindDomain -ZPerfect_Hash_Test2 -P -K name_offset -Q stringpool2 -D -T
effective_tld_names_unittest2.gperf >  effective_tld_names_unittest2.cc
// to generate the perfect hashmap.
%}
struct DomainRule {
 int name_offset;
 int type;  // 1: exception, 2: wildcard, 4: private
};
%%
jp, 0
bar.jp, 0
%%

Found in path(s):
* /effective-tld-names-1-tar-gz/effective_tld_names_unittest2.gperf
```

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```
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action_foreach("registry_controlled_domains") {
 script = "//net/tools/dafsa/make_dafsa.py"
 sources = [
   "effective_tld_names.gperf",
   "effective_tld_names_unittest1.gperf",
   "effective_tld_names_unittest2.gperf",
   "effective_tld_names_unittest3.gperf",
   "effective_tld_names_unittest4.gperf",
   "effective_tld_names_unittest5.gperf",
   "effective_tld_names_unittest6.gperf",
 ]
 outputs = [ "${target_gen_dir}/{{source_name_part}}-reversed-inc.cc" ]
 args = [
   "--reverse",
   "{{source}}",
   rebase_path("${target_gen_dir}/{{source_name_part}}-reversed-inc.cc",
               root_build_dir),
 ]
}

action_foreach("lookup_strings_test_sets") {
 script = "//net/tools/dafsa/make_dafsa.py"
 sources = [
   "effective_tld_names.gperf",
    "effective_tld_names_unittest1.gperf",
   "effective_tld_names_unittest2.gperf",
   "effective_tld_names_unittest3.gperf",
   "effective_tld_names_unittest4.gperf",
   "effective_tld_names_unittest5.gperf",
   "effective_tld_names_unittest6.gperf",
 ]
 outputs = [ "${target_gen_dir}/{{source_name_part}}-inc.cc" ]
 args = [
   "{{source}}",
   rebase_path("${target_gen_dir}/{{source_name_part}}-inc.cc",
               root_build_dir),
 ]
}
```

Found in path(s):
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1.408 expat 2.4.8

1.408.1 Available under license :

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1.409 wpa-supplicant 2.10-devel

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1.410 openssl 1.1.1o

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1.411 qt 5.15.9

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otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information").

Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes

generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information

to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this
Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment
Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's usiness activities. The Qt Company or the independent auditor acting on

behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct
necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into
force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following
The Qt Company's
written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed

over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the

terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior

written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable

to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly
from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The
modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X, R	X, R			
Qt GUI	X, R	X, R			
Qt Multimedia	X, R	X, R			

Qt Multimedia Widgets	X, R	X, R			
Qt Network	X, R	X, R			
Qt QML	X, R	X, R			
Qt Quick	X, R	X, R			
Qt Quick Controls 2	X, R	X, R			
Qt Quick Dialogs	X, R	X, R			
Qt Quick Layouts	X, R	X, R			
Qt Quick Test	X, R	X, R			
Qt SQL	X, R	X, R			
Qt Test	X, R	X, R			
Qt Widgets	X, R	X, R			
Active Qt	X, R	X, R			
Qt 3D	X, R	X, R			
Qt Android Extras	X, R	X, R			
Qt Bluetooth	X, R	X, R			
Qt Canvas 3D	X, R	X, R			
Qt Concurrent	X, R	X, R			
Qt D-Bus	X, R	X, R			
Qt Gamepad	X, R	X, R			
Qt Graphical Effects	X, R	X, R			
Qt Help	X, R	X, R			
Qt Image Formats	X, R	X, R			
Qt Location	X, R	X, R			

Qt Mac Extras	X, R	X, R			
Qt Network Authorization	X, R	X, R			
Qt NFC	X, R	X, R			
Qt Platform Headers	X, R	X, R			
Qt Positioning	X, R	X, R			
Qt Print Support	X, R	X, R			
Qt Purchasing	X, R	X, R			
Qt for Python	X, R	X, R			
Qt Quick Controls	X, R	X, R			
Qt Quick Extras	X, R	X, R			
Qt Quick Widgets	X, R	X, R			
Qt SCXML	X, R	X, R			
Qt Sensors	X, R	X, R			
Qt Serial Bus	X, R	X, R			
Qt Serial Port	X, R	X, R			
Qt Speech	X, R	X, R			
Qt SVG	X, R	X, R			
Qt UI Tools	X, R	X, R			
Qt WebChannel	X, R	X, R			
Qt WebEngine	X, R	X, R			
Qt WebSockets	X, R	X, R			
Qt WebView	X, R	X, R			

Qt Windows Extras	X, R	X, R			
Qt X11 Extras	X, R	X, R			
Qt XML	X, R	X, R			
Qt XML Patterns	X, R	X, R			
Qt Wayland Compositor	X, R	X, R			
Qt Charts	X, R	X, R			
Qt Data visualization	X, R	X, R			
Qt Virtual Keyboard	X, R	X, R			
Boot 2 Qt stack		X, R			
Qt OTA		X, R			
Device Utilities		X, R			
Qt Debugging Bridge (QDB) Daemon		X, R			
Qt Quick Ultralite Controls			X, R		
Qt Quick Ultralite			X, R		
Qt Creator	X	X	X		
Qt Designer (Qt Widget Designer)	X	X			
Qt Quick Designer (Qt Creator plugin)	X	X	X		
Qt Linguist	X	X	X		
Qt Assistant	X	X	X		
Lupdate	X	X	X		
Lrelease	X	X	X		
Qmake	X	X			

Uic	X	X			
Rcc	X	X			
Qlalr	X	X			
Qdoc	X	X			
Qmlscene	X	X			
Qmlviewer	X	X			
Target toolchains		X	X		
Qt Debugging Bridge (QDB) Host Tools		X			
qtconfig-gui		X			
Qt Emulator		X			
Qmlinterfacegenerator			X		
Qmltocpp			X		
qulfontcompiler			X		
Qt53DStudioRuntime2				X, R	
Qt 3D Studio				X	
Qt Design Studio					X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table.

Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

	Add-On Product(s)					
Modules / Tools of Licensed Software	Qt for Automation / Qt M2M Protocols	Qt Automotive Suite	Qt Safe Renderer	Qt Application Manager	Qt GammaRay	Qt Deployment Platform Package
Qt MQTT	X, R					
Qt KNX	X, R					
Qt OPC UA	X, R					
Qt CoAP	X, R					
Qt Safe Renderer		X, R	X, R			
Qt Application Manager		X, R		X, R		
Qt IVI		X, R				
Reference UI		X, R				
Qt GENIVI Extras		X, R				
QML Live		X				
Qt Creator						
X						
Deployment						
Qt Creator Plugin for Qt Application Manager		X		X		
Qt Automotive Suite Deployment Server		X				
Qt Design Studio		X				

|
Qt 3D Studio | | X | | | | |
+---+
| GammaRay | | X | | | X | |
+---+
Platform adaptations						X
for specified						
Deployment Platforms						
+---+
Qt for Device		X				
Creation		
+---+

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for installation related issues.

Upon expiry of the respective License
Term, the Start-up Development
Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal Development Licenses (if the Licensee no longer qualifies as a Start-up ompany).

APPENDIX 5: NON-COMMERCIAL USE
The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable)

shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose"
shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:
"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:
"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.
Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.
Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.
For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:
"Licensee shall not:
- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:
"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in any of your projects or products.

- The FreeType License, found in the file `FTL.TXT', which is similar to the original BSD license *with* an advertising clause that forces you to explicitly cite the FreeType project in your product's documentation. All details are in the license file. This license is suited to products which don't use the GNU General Public

License.

Note that this license is compatible to the GNU General Public License version 3, but not version 2.

- The GNU General Public License version 2, found in `GPLv2.TXT' (any later version can be used also), for programs which already use the GPL. Note that the FTL is incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file src/bdf/README and src/pcf/README). The same holds for the files `fthash.c' and `fthash.h'; their code was part of the BDF driver in earlier FreeType versions.

The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

--- end of LICENSE.TXT ---

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Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving
Party; (iv) is lawfully disclosed to the
Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License
Fees shall not be refunded or claimed as a credit, even on the ground that Distribution Licenses are not used, i.e. Redistributables are not actually distributed corresponding to the Distribution Licenses purchased, or for any other reason.

10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3 Distribution

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10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past
due.

The Qt Company shall have the right to suspend, terminate or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Developer License, Distribution License, and Support, should Licensee fail to

make payment in a timely fashion.

10.5 Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance
with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice
and at its
expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt

Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date

of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

13.GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted
in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1 No Assignment Licensee

shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2 No Third Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so
be deemed to survive.

14.4 Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein. In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

14.5 Modifications

No modification of this Agreement shall be effective unless contained in a

writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order shall apply unless expressly accepted by The Qt Company in writing.

14.6 Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance
of its obligations hereunder in the
event and to the extent that such delay or non- performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non- performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7 Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to
the addresses specified for
The Qt Company in the beginning of this Agreement, and for the Licensee in the Licensees account profile. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8 Export Control
Licensee acknowledges that the Redistributables may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all lawses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re- exportation of the Redistributables, Applications
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14.10 Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11 Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

IN WITNESS WHEREOF, the Parties hereto, intending to be legally bound hereby, have caused this Agreement to be executed by Licensees authorized representative installing the Licensed Software and accepting the terms hereof in connection therewith.

Appendix 1

1. Parts of the Licensed Software
that are permitted for distribution in object
code form only ("Redistributables") under this Agreement:

- The Licensed Software's essential and add-on libraries

- The Licensed Software's configuration tool ("qtconfig")

- The Licensed Software's help tool ("Qt Assistant")

- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate", "lrelease")

- The Licensed Software's QML ("Qt Quick") launcher tool ("qmlscene" and "qmlviewer")

- The Licensed Software's installer framework

2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to:

- The Licensed Software's source code and header files

- The Licensed Software's documentation

- The Licensed Software's documentation generation tool ("qdoc")

- The Licensed Software's tool for writing makefiles ("qmake")

- The Licensed Software's Meta Object Compiler ("moc")

- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed
Software's Resource Compiler ("rcc")

- The Licensed Software's generator (only in the case of Qt Jambi if applicable)

- The Licensed Software's parts of the IDE tool ("Qt Creator")

- The Licensed Software's Emulator

- Build scripts, recipes and other material for creating the
configuration of Licensed Software and/or 3rd party components, including the
reference operating system configuration delivered in conjunction with the

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Version 3, 29 June 2007

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3. Object Code Incorporating Material from Library Header Files.

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You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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Don't put empty lines into this file!
#
.gitignore
#
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
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#
#
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"Open Source Qt" shall mean the non-commercial Qt computer software products, licensed under the terms of the GNU Lesser General Public License, version 2.1 or later ("LGPL") or the GNU General Public License, version 2.0 or later ("GPL"). For clarity, Open Source Qt shall not be provided nor governed under this Agreement.

"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Permitted Combination" shall have the meaning as set forth in Section 3.4(viii).

"Pre-Release Code" shall have the meaning as set forth in Section 4.

"Prohibited Combination" shall mean any means to (i) use, combine, incorporate, link or integrate Licensed Software with any software created with or incorporating Open Source Qt, (ii) use Licensed Software for creation of any software created with or
incorporating Open Source Qt, or (iii) incorporate or
integrate Applications into a hardware device or product other than a Device.

"Qt 3D Studio" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt Design Studio" shall mean The Qt Company's productized offering, which

consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for Application Development" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for Device Creation" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Qt for MCUs" shall mean The Qt Company's productized offering, which consist of all versions of modules and tools as set forth in Appendix 1.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1 that may be distributed
pursuant to the terms of this Agreement
in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"Renewal Term" shall mean an extension of previous License Term as agreed between the Parties.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms available at https://www.qt.io/terms-conditions/ and as further defined in Section 8 hereunder.

"Taxes" shall have the meaning set forth in Section 10.5.

"Term" shall have the meaning set forth in Section 12.

"The Qt Company" shall mean:

(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or

having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

"Third-Party Software" shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version
number. The Qt Company shall make Updates
available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP

2.1. Ownership of The Qt Company

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All of The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively.

2.2. Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain
the
exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

2.3. Modified Software

Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that

The Qt Company's ability to
provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

Licensee may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion.

3. LICENSES GRANTED

3.1. Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive,
non-transferable license, valid for the License
Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to end-user Customers.

Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

Upon expiry of the initially agreed License Term, the respective License Terms shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing
that it does not wish
to continue the License Term, such notification to be provided to the other Party no less than ninety (90) days before expiry of the respective License Term. Unless otherwise agreed between the Parties, Renewal Term shall be of equal length with the initial License Term.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Renewal Term.

Any price or other term specified for a Renewal Term shall be valid only for the specified time.

The Qt Company may request the Licensee to place a purchase order corresponding to a quote by The Qt Company for the relevant Renewal Term.

In the event Licensee does not prevent auto-renewal pursuant the above, but a Renewal Term is nevertheless not duly ordered within 30 days from the date of the respective quote from The Qt Company and/or the respective License Fee paid by due
date specified in The Qt Company's respective invoice, The Qt Company shall apply a reinstatement fee equal to ten percent (10 %) of the total value of the License Fees of the Development Licenses for the expired term to be added to the License Fee of the respective Renewal Term.

In the event Licensee chooses not to renew a Development License for a Renewal Term by notifying The Qt Company thereof no less than ninety (90) days before expiry of the respective License Term, Licensee may still reinstate such expired Development Licenses for a Renewal Term subject to applicable renewal Term License Fees until thirty (30) days from the expiry of the initially agreed License Term or preceding Renewal Term. After such thirty (30) day period a Development License shall be subject to applicable License Fees for a new Development License and not any Renewal Term License Fees.

3.2. Distribution of Applications
Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide,
non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and
(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Licensee not having any unpaid License Fees for Development Licenses owed to The Qt Company at the time of distribution of any Redistributables to Customers.

3.3. Distribution of Devices
Subject to the terms of this Agreement, The Qt Company
grants to Licensee a
worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement) right and license, valid for the Term, to

(i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices

for execution on the Deployment Platforms, and

(ii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Redistributables with Devices as provided herein is conditional upon the Licensee (i) not having any unpaid License Fees for Development Licenses owed to The Qt Company, and (ii) having purchased and paid corresponding Distribution Licenses at the time of distribution of any Redistributables to Customers.

3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;

(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose,

(ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written

permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Qt 3D Studio and/or Qt Design Studio with Open Source Qt ("Permitted

Combination") for its internal evaluation purposes, provided that Licensee shall in no way transfer, publish, disclose, display or otherwise make available any software or work resulting from such Permitted Combination;

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent

explicitly provided in this Section

3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is

strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with
the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior
to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under
this
Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability

for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT
OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY
7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE
PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES
Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to

limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs

Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable

invoice from The Qt Company.

The Qt Company will submit an
invoice to Licensee after the date of this
Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this
Agreement and for a period
of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require
from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or

the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that
Licensee is using the Licensed Software beyond scope
of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION

12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of
this Section 12.

12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent,
files for
any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act
equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or

(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In

the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning
the Licensed
Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict
or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations
hereunder, neither Party shall be liable to
the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure

Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

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14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data

Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application
Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules/Tools	QtAD	QtDC	QtMCU	Qt3DS	QtDS
Qt Core	X,R	X,R			
Qt GUI	X,R	X,R			
Qt Multimedia	X,R	X,R			
Qt Multimedia Widgets	X,R	X,R			
Qt Network	X,R	X,R			
Qt QML	X,R	X,R			
Qt Quick	X,R	X,R			
Qt Quick Controls 2	X,R	X,R			

Qt Quick Dialogs	X,R	X,R		
Qt Quick Layouts	X,R	X,R		
Qt Quick Test	X,R	X,R		
Qt SQL	X,R	X,R		
Qt Test	X,R	X,R		
Qt Widgets	X,R	X,R		
Active Qt	X,R	X,R		
Qt 3D	X,R	X,R		
Qt Android Extras	X,R	X,R		
Qt Bluetooth	X,R	X,R		
Qt Canvas 3D	X,R	X,R		
Qt Concurrent	X,R	X,R		
Qt D-Bus	X,R	X,R		
Qt Gamepad	X,R	X,R		
Qt Graphical Effects	X,R	X,R		
Qt Help	X,R	X,R		
Qt Image Formats	X,R	X,R		
Qt Location	X,R	X,R		
Qt Mac Extras	X,R	X,R		
Qt Network Authorization	X,R	X,R		
Qt NFC	X,R	X,R		
Qt Platform Headers	X,R	X,R		

Qt Positioning	X,R	X,R		
Qt Print Support	X,R	X,R		
Qt Purchasing	X,R	X,R		
Qt for Python	X,R	X,R		
Qt Quick Controls	X,R	X,R		
Qt Quick Extras	X,R	X,R		
Qt Quick Widgets	X,R	X,R		
Qt SCXML	X,R	X,R		
Qt Sensors	X,R	X,R		
Qt Serial Bus	X,R	X,R		
Qt Serial Port	X,R	X,R		
Qt Speech	X,R	X,R		
Qt SVG	X,R	X,R		
Qt UI Tools	X,R	X,R		
Qt WebChannel	X,R	X,R		
Qt WebEngine	X,R	X,R		
Qt WebSockets	X,R	X,R		
Qt WebView	X,R	X,R		
Qt Windows Extras	X,R	X,R		
Qt X11 Extras	X,R	X,R		
Qt XML	X,R	X,R		
Qt XML Patterns	X,R	X,R		

Qt Wayland Compositor | X,R | X,R | | |

Qt Charts | X,R | X,R | | |

Qt Data Visualization | X,R | X,R | | |

Qt Virtual Keyboard | X,R | X,R | | |

Boot
2 Qt stack | | X,R | | |

Qt OTA | | X,R | | |

Device Utilities | | X,R | | |

Qt Debugging Bridge (QDB) Daemon | | X,R | | |

Qt Quick Ultralite Controls | | | X,R | |

Qt Quick Ultralite | | | X,R | |

Qt Creator |
X | X | X | |

Qt Designer (Qt Widget Designer) | X | X | | |

Qt Quick Designer (Qt Creator plugin) | X | X | X | |

Qt Linguist | X | X | X | |

Qt Assistant | X | X | X | |

---

lupdate | X | X | X | |

---

lrelease | X | X | X | |

---

qmake
| X | X | | |

---

uic | X | X | | |

---

rcc | X | X | | |

---

qlalr | X | X | | |

---

qdoc | X | X | | |

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qmlscene | X | X | | |

qmlviewer	X	X		
Target toolchains		X	X		
Qt Debugging Bridge (QDB) Host Tools		X			
qtconfig-gui		X			
Qt Emulator		X			
qmlinterfacegenerator			X		
qmltocpp			X		
qulfontcompiler			X		
Qt53DStudioRuntime2				X,R	
Qt 3D Studio				X	
Qt Design Studio					X

APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE
In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On
Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

Modules / Tools of Licensed Software	Add-On Product(s): Qt for Automation Suite	Qt Automotive Suite	Qt Safe Renderer	Qt Application Manager	Qt Gammaray	Qt Deployment Platform Package

Qt MQTT | X,R | | | | |

Qt KNX | X,R
| | | | |

Qt OPC UA | X,R | | | | |

Qt CoAP | X,R | | | | |

Qt Safe | | X,R | X,R | | |
Renderer | | | | | |

Qt | | | | | |
Application | | X,R | | X,R | |
Manager | | | | | |

Qt IVI | | X,R | |
| |

Reference UI| | X,R | | | |

Qt GENIVI | | X,R | | | |
Extras | | | | | |

QML Live | | X | | | |

Qt Creator | | X | | | |
Deployment | | | | | |

Qt Creator | | | | | |
Plugin for | | | | | |
Qt | |
X | | X | |
Application | | | | | |
Manager | | | | | |

Qt | | | | | |
Automotive | | | | | |
Suite | | X | | | |
Deployment | | | | | |
Server | | | | | |

Qt Design | | X | | | |
Studio | | | | | |

Qt 3D Studio| | X | | | |

GammaRay

	X			X
Platform adaptations for specified Deployment Platforms				X
Qt for Device Creation		X		

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term.For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

(a) This Appendix 4 is terminated, Trial Term Modifications cease to

remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement,

unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that

(b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users may use the Licensed Software.

Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);

- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to

comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms
of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

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Version 3, 29 June 2007

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Preamble

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Developers that use the GNU GPL protect your rights with two steps:
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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 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 for you, or provide you with 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.

3. 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.

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 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.

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
keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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

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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.
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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.

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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
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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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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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1.416 libusb-compat 0.1.4-3.el7

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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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1.418 libnsl 2.28

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* /clang-tar-gz/pylib/clang/compile_db_test.py
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* /clang-tar-gz/scripts/build_file.py
* /clang-tar-gz/pylib/__init__.py
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* /clang-tar-gz/scripts/goma_link_unit_tests.py
* /clang-tar-gz/scripts/goma_link_integration_tests.py
* /clang-tar-gz/scripts/goma_link.py
* /clang-tar-gz/scripts/goma_ld.py
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* /clang-tar-gz/base_bind_rewriters/BaseBindRewriters.cpp
* /clang-tar-gz/value_cleanup/ValueCleanup.cpp
* /clang-tar-gz/blink_gc_plugin/DiagnosticsReporter.cpp
* /clang-tar-gz/rewrite_to_chrome_style/EditTracker.cpp
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.text

// This function is assumed to be called only from within InitGC. The value
// pointed to by InitGCs frame pointer is loaded as the stack sentinal value.
.globl InitTopOfStack
InitTopOfStack:
  mov (%rbp), %rdi
  mov %rdi, (TopOfStack)
  ret

```
.extern StackWalkAndMoveObjects
.globl GC

// We place the frame pointer in the first arg slot register and call
// StackWalkAndMoveObjects. The function epilogue needs to be hand-written
// afterwards so as to not corrupt the stack.
GC:
  pushq %rbp
  movq %rsp, %rbp
  subq $8, %rsp
  mov %rbp, %rdi
  call StackWalkAndMoveObjects
  addq $8, %rsp
  popq %rbp
  ret

.bss
.globl TopOfStack
TopOfStack:
  .quad 0
  .size TopOfStack, 8
```

Found in path(s):
* /clang-tar-gz/stack_maps/gc/GC_Shim_x86_64.S

1.420 libdouble-conversion 3.2.0

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```
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1.421 libnsl 2.0.0

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1.422 libwebp 1.2.2

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1.423 glib 2.69.3

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1.425 libnsl 2.17

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The Unicode Standard, Unicode Character Database, Version 10.0.0

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1.431 tiny-xml 2.4.0

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/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily
integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a
Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create
your own document markups. Where HTML does a very good job of marking
documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an
organizer application. XML is a very structured and convenient format.
All those random file formats created to store application data can
all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to
read spec is at
http://www.w3.org/TR/2004/REC-xml-20040204/.
An intro to XML
(that I really like) can be found at
http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.
TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed
into a C++ objects that can be browsed and manipulated, and then
written to disk or another output stream. You can also construct an XML document
from scratch with C++ objects and write this to disk or another output
stream.

TinyXML is designed to be easy and fast to learn. It is two headers
and four cpp files. Simply add these to your project and off you go.
There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license,
so you can use it in open source or commercial code. The details
of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and
compliant XML output. TinyXML should compile on
any reasonably C++
compliant system. It does not rely on exceptions or RTTI. It can be
compiled with or without STL support. TinyXML fully supports
the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs
(eXtensible Stylesheet Language.) There are other parsers out there
(check out www.sourceforge.org, search for XML) that are much more fully
featured. But they are also much bigger, take longer to set up in
your project, have a higher learning curve, and often have a more

restrictive license. If you are working with browsers or have more
complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
 <!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
 ]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally
embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For
 the impatient, here is a tutorial to get you going. A great way to get started,
but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find
bugs, please file a bug report on the sourceforge web site
(www.sourceforge.net/projects/tinyxml). We'll get them straightened
out as soon as possible.

There are some areas of improvement; please check sourceforge if you are
interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint
   XPath syntax decoder, written in C++.
 TinyXML++ (http://code.google.com/p/ticpp/). TinyXML++ is a completely new
   interface to TinyXML that uses MANY of the C++ strengths. Templates,
  exceptions, and much better error handling.

<h2>
 Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML
uses the std::string class, and fully supports std::istream, std::ostream,
operator<<, and operator>>. Many API methods have both 'const char*' and
'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All
the string classes are implemented by TinyXML itself. API methods
all use the 'const char*' form for input.

Use the compile time #define:

 TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler,
or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment
variable TINYXML_USE_STL=YES/NO will control STL compilation. In the
Windows project file, STL and non STL targets are provided. In your project,
It's probably easiest to add the line "#define TIXML_USE_STL" as the first
line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing
 to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and
probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However,
by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML
can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

  If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
   begin the file or data stream, TinyXML will read it as UTF-8.
  If the declaration tag is read, and it has an encoding="UTF-8", then
   TinyXML will read it as UTF-8.
  If the declaration tag is read, and it has no encoding specified, then TinyXML will
   read it as UTF-8.
  If the declaration tag is read, and it has an encoding="something else", then TinyXML
   will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

 not clear what that mode does exactly, but old content should keep working.
  Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try
to read and pass through text seen as improperly encoded. You may get some strange results or
mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or
LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all
the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may
force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You
don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML
does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time.
It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding
of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can
handle all languages, at the same time, as long as the XML is encoded
in UTF-8. That can be a little tricky, older programs and operating systems
tend to use the "default" or "traditional" code page. Many apps (and almost all
modern ones) can output UTF-8, but older or stubborn (or just broken) ones
still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.
Text encoded as SHIFT-JIS can not be read by TinyXML.
A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great
job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English,
Spanish, Russian,
and Simplified Chinese. (Hopefully they are translated correctly). The file
"utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that
if you don't have the correct fonts (Simplified Chinese or Russian) on your
system, you won't see output that matches the GIF file even if you can parse
it correctly. Also note that (at least on my Windows machine) console output
is in a Western code page, so that Print() or printf() cannot correctly display
the file. This is not a bug in TinyXML - just an OS issue. No data is lost or
destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special

characters. Namely:

@verbatim
 & &
 < <
 > >
 " "
 ' '
@endverbatim

These are recognized when the XML document is read, and translated to there
UTF-8 equivalents. For instance, text with the XML of:

@verbatim
 Far & Away
@endverbatim

will have the Value()
 of "Far & Away" when queried from the TiXmlText object,
and will be written back to the XML stream/file as an ampersand. Older versions
of TinyXML "preserved" character entities, but the newer versions will translate
them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax " " or " " are both to the non-breaking space characher.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead
   in the TinyXML code.
 - used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
 - Integrates with standart C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission
   and moving XML
 between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
 - API is less concise
 - Future printing options will be put here.
 - Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well

as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello____world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the
first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior.
The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool)
before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check
for null returns from method calls. An error safe implementation can
generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
  TiXmlElement* child = element->FirstChildElement("Child");
  if (child)
  {
   TiXmlElement* child2 = child->NextSiblingElement("Child");
   if (child2)
   {
    // Finally do something useful.
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class,
the previous code reduces to:

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location
in source files can be very important for some applications. Additionally,
knowing where parsing errors occured in the original source can be very
time
saving.

TinyXML can tracks the row and column origin of all nodes and attributes
in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be
configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided.
Simply compile and run. It will write the file demotest.xml to your
disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different
techniques.

The Linux makefile is very generic and runs on many systems - it
is currently tested on mingw and
MacOSX. You do not need to run 'make depend'. The dependecies have been
hard coded.

<h3>Windows project file for VC6</h3>

tinyxml: tinyxml library, non-STL
tinyxmlSTL: tinyxml library, STL
tinyXmlTest: test app, non-STL
tinyXmlTestSTL: test app,
STL

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:
@verbatim
<?xml version="1.0" standalone=no>
<!-- Our to do list data -->
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold></Item>
<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:
@verbatim
TiXmlDocument
doc("demo.xml");
doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they relate to the DOM.

@verbatim
<?xml version="1.0" standalone=no>
@endverbatim

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->
@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have
any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element.
This element has 1 attribute, with the name "priority" and the value
"1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:
@verbatim
TiXmlDocument "demo.xml"
 TiXmlDeclaration "version='1.0'" "standalone=no"
 TiXmlComment " Our to do list data"
 TiXmlElement "ToDo"
  TiXmlElement "Item" Attribtutes: priority = 1
   TiXmlText "Go to the "
   TiXmlElement "bold"
    TiXmlText "Toy store!"
  TiXmlElement "Item" Attributes: priority=2
   TiXmlText "Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox'
configuration file.

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for
XML, and their web pages contain huge amounts of information.

The definitive spec:
http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by
OReilly...the book that got
 the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and
encouragement. It all helps, and makes this project fun. A special thanks
to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here
we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still
in the documentation.) Lee reviews changes and releases new versions,
with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you
use TinyXML. Hopefully you will enjoy it and find it useful.
Please post questions, comments, file bugs, or contact us at:

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Lee Thomason, Yves Berquin, Andrew Ellerton
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1.432 linux-kernel 5.4.124

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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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1.434 zlib 1.2.11

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

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

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

1.435 wireless-tools 30

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AC_PREREQ([2.63])
AC_INIT([libdrm],
      [2.4.99],
      [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
      [libdrm])

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])
PKG_PROG_PKG_CONFIG

# Require xorg-macros minimum of 1.12 for XORG_WITH_XSLTPROC
m4_ifndef([XORG_MACROS_VERSION],
       [m4_fatal([must install xorg-macros 1.12 or later before running autoconf/autogen])])
XORG_MACROS_VERSION(1.12)
XORG_WITH_XSLTPROC
XORG_MANPAGE_SECTIONS

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])
```

```
# Check for programs
AC_PROG_CC
AC_PROG_CC_C99
AC_PROG_NM

if test "x$ac_cv_prog_cc_c99" = xno; then
 AC_MSG_ERROR([Building libdrm
 requires C99 enabled compiler])
fi

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

save_CFLAGS="$CFLAGS"
export CFLAGS="$CFLAGS -Werror"
AC_HEADER_MAJOR
CFLAGS="$save_CFLAGS"

AC_CHECK_HEADERS([sys/sysctl.h sys/select.h])

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

dnl pthread-stubs is mandatory on some BSD platforms, due to the nature of the
dnl project. Even then there's a notable issue as described in the project README
case "$host_os" in
linux* | cygwin* | darwin* | solaris* | *-gnu* | gnu* | openbsd*)
  pthread_stubs_possible="no"
  ;;
* )
  pthread_stubs_possible="yes"
  ;;
esac

if test "x$pthread_stubs_possible" = xyes; then
  PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs >= 0.4)
  AC_SUBST(PTHREADSTUBS_CFLAGS)
  AC_SUBST(PTHREADSTUBS_LIBS)
fi

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
libdrmdatadir=${datadir}/libdrm
AC_SUBST(libdrmdatadir)

AC_ARG_ENABLE([udev],
```

```
        [AS_HELP_STRING([--enable-udev],

                [Enable support for using udev instead of mknod (default: disabled)])],
        [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto, enabled on supported platforms)]),
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto, enabled on x86)]),
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)]),
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(amdgpu,
    AS_HELP_STRING([--disable-amdgpu],
    [Enable support for amdgpu's KMS API (default: auto)]),
    [AMDGPU=$enableval], [AMDGPU=auto])

AC_ARG_ENABLE(nouveau,
    AS_HELP_STRING([--disable-nouveau],
    [Enable support for nouveau's KMS API (default: auto)]),

   [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE(vmwgfx,
    AS_HELP_STRING([--disable-vmwgfx],
    [Enable support for vmwgfx's KMS API (default: yes)]),
    [VMWGFX=$enableval], [VMWGFX=yes])

AC_ARG_ENABLE(omap-experimental-api,
    AS_HELP_STRING([--enable-omap-experimental-api],
    [Enable support for OMAP's experimental API (default: disabled)]),
    [OMAP=$enableval], [OMAP=no])

AC_ARG_ENABLE(exynos-experimental-api,
    AS_HELP_STRING([--enable-exynos-experimental-api],
    [Enable support for EXYNOS's experimental API (default: disabled)]),
    [EXYNOS=$enableval], [EXYNOS=no])

AC_ARG_ENABLE(freedreno,
    AS_HELP_STRING([--disable-freedreno],
```

```
      [Enable support for freedreno's KMS API (default: auto, enabled on arm)]),
      [FREEDRENO=$enableval], [FREEDRENO=auto])

AC_ARG_ENABLE(freedreno-kgsl,
      AS_HELP_STRING([--enable-freedreno-kgsl],
      [Enable support for freedreno's to use downstream android kernel API (default:
 disabled)]),
      [FREEDRENO_KGSL=$enableval], [FREEDRENO_KGSL=no])

AC_ARG_ENABLE(tegra-experimental-api,
      AS_HELP_STRING([--enable-tegra-experimental-api],
      [Enable support for Tegra's experimental API (default: disabled)]),
      [TEGRA=$enableval], [TEGRA=no])

AC_ARG_ENABLE(vc4,
      AS_HELP_STRING([--disable-vc4],
      [Enable support for vc4's API (default: auto, enabled on arm)]),
      [VC4=$enableval], [VC4=auto])

AC_ARG_ENABLE(etnaviv-experimental-api,
      AS_HELP_STRING([--enable-etnaviv-experimental-api],
      [Enable support for etnaviv's experimental API (default: disabled)]),
      [ETNAVIV=$enableval], [ETNAVIV=no])

AC_ARG_ENABLE(install-test-programs,
    AS_HELP_STRING([--enable-install-test-programs],
    [Install test programs (default: no)]),
    [INSTALL_TESTS=$enableval], [INSTALL_TESTS=no])

dnl ===========================================================================
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
 AC_MSG_CHECKING([whether
 $CC supports $1])

 libdrm_save_CFLAGS="$CFLAGS"
 CFLAGS="$CFLAGS $1"

 AC_COMPILE_IFELSE([AC_LANG_SOURCE([ ])], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
 CFLAGS="$libdrm_save_CFLAGS"

 if test "x$libdrm_cc_flag" = "xyes"; then
   ifelse([$2], , :, [$2])
 else
   ifelse([$3], , :, [$3])
 fi
 AC_MSG_RESULT([$libdrm_cc_flag])
])
```

```
dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
        [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
                [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream],
        [AC_DEFINE([HAVE_OPEN_MEMSTREAM], 1, [Have open_memstream()])],
        [AC_DEFINE([HAVE_OPEN_MEMSTREAM], 0)])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked.  So there's
 no need to do anything
dnl else.  If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra -Werror=undef \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline -Wshadow \
-Wno-missing-field-initializers"

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
 unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
 echo
 WARN_CFLAGS=""

 # Some warning options are not supported by all versions of
 # gcc, so test all desired options against the current
 # compiler.
 #
 # Note
 that there are some order dependencies
 # here. Specifically, an option that disables a warning will
 # have no net effect if a later option then enables that
 # warnings, (perhaps implicitly). So we put some grouped
```

```
 # options (-Wall and -Wextra) up front and the -Wno options
 # last.

 for W in $MAYBE_WARN; do
  LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
 done

 libdrm_cv_warn_cflags=$WARN_CFLAGS
 libdrm_cv_warn_maybe=$MAYBE_WARN

 AC_MSG_CHECKING([which warning flags were supported])])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives, [
 drm_cv_atomic_primitives="none"

 AC_LINK_IFELSE([AC_LANG_PROGRAM([[
 int atomic_add(int *i) { return __sync_add_and_fetch (i, 1); }
 int atomic_cmpxchg(int *i, int j, int k) { return __sync_val_compare_and_swap (i, j, k); }
      ]],[[]])], [drm_cv_atomic_primitives="Intel"],[])

 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_HEADER([atomic_ops.h],
 drm_cv_atomic_primitives="libatomic-ops")
 fi

 # atomic functions defined in <atomic.h> & libc on Solaris
 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_FUNC([atomic_cas_uint], drm_cv_atomic_primitives="Solaris")
 fi
])

if test "x$drm_cv_atomic_primitives" = xIntel; then
 AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
  [Enable if your compiler supports the Intel __sync_* atomic primitives])
else
 AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 0)
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
 AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
else
 AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 0)
fi

dnl Print out the approapriate message considering the value set be the
dnl respective in $1.
dnl $1 - value to be evaluated. Eg. $INTEL, $NOUVEAU, ...
```

```
dnl $2 - libdrm shortname. Eg. intel, freedreno, ...
dnl $3 - GPU name/brand. Eg. Intel, NVIDIA Tegra, ...
dnl $4 - Configure switch. Eg. intel, omap-experimental-api,
 ...
AC_DEFUN([LIBDRM_ATOMICS_NOT_FOUND_MSG], [
 case "x$1" in
  xyes) AC_MSG_ERROR([libdrm_$2 depends upon atomic operations, which were not found for your compiler/cpu.
Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable
support for $3 GPUs by passing --disable-$4 to ./configure]) ;;
  xauto) AC_MSG_WARN([Disabling $2. It depends on atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.]) ;;
  *) ;;
 esac
])

if test "x$drm_cv_atomic_primitives" = "xnone"; then
 LIBDRM_ATOMICS_NOT_FOUND_MSG($INTEL, intel, Intel, intel)
 INTEL=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($RADEON, radeon, Radeon, radeon)
 RADEON=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($AMDGPU, amdgpu, AMD, amdgpu)
 AMDGPU=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($NOUVEAU, nouveau, NVIDIA, nouveau)
 NOUVEAU=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($OMAP, omap, OMAP, omap-experimental-api)
 OMAP=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($FREEDRENO,
 freedreno, Qualcomm Adreno, freedreno)
 FREEDRENO=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($TEGRA, tegra, NVIDIA Tegra, tegra-experimental-api)
 TEGRA=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($ETNAVIV, etnaviv, Vivante, etnaviv-experimental-api)
 ETNAVIV=no
else
 if test "x$INTEL" = xauto; then
  case $host_cpu in
   i?86|x86_64) INTEL=yes ;;
   *)  INTEL=no ;;
  esac
 fi
 if test "x$RADEON" = xauto; then
```

```
 RADEON=yes
fi
if test "x$AMDGPU" = xauto; then
 AMDGPU=yes
fi
if test "x$NOUVEAU" = xauto; then
 NOUVEAU=yes
fi
if test "x$FREEDRENO" = xauto; then
 case $host_cpu in
  arm*|aarch64) FREEDRENO=yes ;;
  *)  FREEDRENO=no ;;
 esac
fi
if test "x$VC4" = xauto; then
 case $host_cpu in
  arm*|aarch64) VC4=yes ;;
  *)  VC4=no ;;
 esac
 fi
fi

if test "x$INTEL" != "xno"; then
 PKG_CHECK_MODULES(PCIACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIACCESS_CFLAGS)
AC_SUBST(PCIACCESS_LIBS)

if test "x$UDEV" = xyes; then
 AC_DEFINE(UDEV, 1, [Have UDEV support])
else
 AC_DEFINE(UDEV,
 0)
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
 case $host_os in
  linux*)  LIBKMS="yes" ;;
  freebsd* | kfreebsd*-gnu)
    LIBKMS="yes" ;;
  dragonfly*) LIBKMS="yes" ;;
  *)  LIBKMS="no" ;;
 esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])
```

```
AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" = xyes])
if test "x$INTEL" = xyes; then
 AC_DEFINE(HAVE_INTEL, 1, [Have intel support])
else
 AC_DEFINE(HAVE_INTEL, 0)
fi

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
 AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
else
 AC_DEFINE(HAVE_VMWGFX, 0)
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
 AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
else
 AC_DEFINE(HAVE_NOUVEAU, 0)
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])

AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
 AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
else
 AC_DEFINE(HAVE_EXYNOS,
 0)
fi

AM_CONDITIONAL(HAVE_FREEDRENO, [test "x$FREEDRENO" = xyes])

if test "x$FREEDRENO_KGSL" = xyes; then
 if test "x$FREEDRENO" != xyes; then
  AC_MSG_ERROR([Cannot enable freedreno KGSL interface if freedreno is disabled])
 fi
fi
AM_CONDITIONAL(HAVE_FREEDRENO_KGSL, [test "x$FREEDRENO_KGSL" = xyes])
if test "x$FREEDRENO_KGSL" = xyes; then
 AC_DEFINE(HAVE_FREEDRENO_KGSL, 1, [Have freedreno support for KGSL kernel interface])
else
 AC_DEFINE(HAVE_FREEDRENO_KGSL, 0)
fi

AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" = xyes])
if test "x$RADEON" = xyes; then
 AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
```

```
else
 AC_DEFINE(HAVE_RADEON, 0)
fi

if test "x$AMDGPU" != xno; then
 # Detect cunit library
 PKG_CHECK_MODULES([CUNIT], [cunit >= 2.1], [have_cunit=yes], [have_cunit=no])
 # If pkg-config does not find cunit, check it using AC_CHECK_LIB.  We
 # do this because Debian (Ubuntu) lacks pkg-config file for cunit.
 # fixed in 2.1-2.dfsg-3: http://anonscm.debian.org/cgit/collab-maint/cunit.git/commit/?h=debian
 if
 test "x${have_cunit}" = "xno"; then
  AC_CHECK_LIB([cunit], [CU_initialize_registry], [have_cunit=yes], [have_cunit=no])
  if test "x${have_cunit}" = "xyes"; then
   CUNIT_LIBS="-lcunit"
   CUNIT_CFLAGS=""
   AC_SUBST([CUNIT_LIBS])
   AC_SUBST([CUNIT_CFLAGS])
  fi
 fi
else
 have_cunit=no
fi
AM_CONDITIONAL(HAVE_CUNIT, [test "x$have_cunit" != "xno"])

AM_CONDITIONAL(HAVE_AMDGPU, [test "x$AMDGPU" = xyes])
if test "x$AMDGPU" = xyes; then
 AC_DEFINE(HAVE_AMDGPU, 1, [Have amdgpu support])

 if test "x$have_cunit" = "xno"; then
  AC_MSG_WARN([Could not find cunit library. Disabling amdgpu tests])
 fi
else
 AC_DEFINE(HAVE_AMDGPU, 0)
fi

AM_CONDITIONAL(HAVE_TEGRA, [test "x$TEGRA" = xyes])

AM_CONDITIONAL(HAVE_VC4, [test "x$VC4" = xyes])
if test "x$VC4" = xyes; then
 AC_DEFINE(HAVE_VC4, 1, [Have VC4 support])
else
 AC_DEFINE(HAVE_VC4, 0)
fi

AM_CONDITIONAL(HAVE_ETNAVIV, [test "x$ETNAVIV" = xyes])

AM_CONDITIONAL(HAVE_INSTALL_TESTS, [test "x$INSTALL_TESTS"
```

```
 = xyes])

AC_ARG_ENABLE([cairo-tests],
        [AS_HELP_STRING([--enable-cairo-tests],
                [Enable support for Cairo rendering in tests (default: auto)])],
        [CAIRO=$enableval], [CAIRO=auto])
if test "x$CAIRO" != xno; then
 PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
fi
AC_MSG_CHECKING([whether to enable Cairo tests])
if test "x$CAIRO" = xauto; then
 CAIRO="$HAVE_CAIRO"
fi
if test "x$CAIRO" = xyes; then
 if ! test "x$HAVE_CAIRO" = xyes; then
  AC_MSG_ERROR([Cairo support required but not present])
 fi
 AC_DEFINE(HAVE_CAIRO, 1, [Have Cairo support])
else
 AC_DEFINE(HAVE_CAIRO, 0)
fi
AC_MSG_RESULT([$CAIRO])
AM_CONDITIONAL(HAVE_CAIRO, [test "x$CAIRO" = xyes])

# xsltproc for docbook manpages
AC_ARG_ENABLE([manpages],
        AS_HELP_STRING([--enable-manpages], [enable manpages @<:@default=auto@:>@]),
        [MANS=$enableval], [MANS=auto])
AM_CONDITIONAL([BUILD_MANPAGES], [test "x$XSLTPROC" != "x"
 -a "x$MANS" != "xno"])

# check for offline man-pages stylesheet
AC_MSG_CHECKING([for docbook manpages stylesheet])
MANPAGES_STYLESHEET="http://docbook.sourceforge.net/release/xsl/current/manpages/docbook.xsl"
AC_PATH_PROGS_FEATURE_CHECK([XSLTPROC_TMP], [xsltproc],
                AS_IF([`"$ac_path_XSLTPROC_TMP" --nonet "$MANPAGES_STYLESHEET" > /dev/null
2>&1`],
                        [HAVE_MANPAGES_STYLESHEET=yes]))
if test "x$HAVE_MANPAGES_STYLESHEET" = "xyes"; then
    AC_SUBST(MANPAGES_STYLESHEET)
    AC_MSG_RESULT([yes])
else
    AC_MSG_RESULT([no])
fi
AM_CONDITIONAL([HAVE_MANPAGES_STYLESHEET], [test "x$HAVE_MANPAGES_STYLESHEET" =
"xyes"])

AC_ARG_ENABLE(valgrind,
```

```
            [AS_HELP_STRING([--enable-valgrind],
                    [Build libdrm with  valgrind support (default: auto)])],
                    [VALGRIND=$enableval], [VALGRIND=auto])
if test "x$VALGRIND" != xno; then
 PKG_CHECK_MODULES(VALGRIND, [valgrind], [have_valgrind=yes],
 [have_valgrind=no])
fi
AC_MSG_CHECKING([whether to enable Valgrind support])
if test "x$VALGRIND" = xauto; then
 VALGRIND="$have_valgrind"
fi

if test "x$VALGRIND" = "xyes"; then
 if ! test "x$have_valgrind" = xyes; then
  AC_MSG_ERROR([Valgrind support required but not present])
 fi
 AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
else
 AC_DEFINE([HAVE_VALGRIND], 0)
fi

AC_MSG_RESULT([$VALGRIND])

AC_ARG_WITH([kernel-source],
          [AS_HELP_STRING([--with-kernel-source],
            [specify path to linux kernel source])],
    [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_MSG_CHECKING([whether $CC supports __attribute__(("hidden"))])
AC_LINK_IFELSE([AC_LANG_PROGRAM([
  int foo_hidden( void ) __attribute__((visibility("hidden")));
])], HAVE_ATTRIBUTE_VISIBILITY="yes"; AC_MSG_RESULT([yes]), AC_MSG_RESULT([no]));

if test "x$HAVE_ATTRIBUTE_VISIBILITY" = xyes; then
  AC_DEFINE(HAVE_VISIBILITY, 1, [Compiler
 supports __attribute__(("hidden"))])
else
  AC_DEFINE(HAVE_VISIBILITY, 0)
fi

CPPFLAGS="$CPPFLAGS -include config.h"

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
 Makefile
 data/Makefile
 libkms/Makefile
```

```
 libkms/libkms.pc
 intel/Makefile
 intel/libdrm_intel.pc
 radeon/Makefile
 radeon/libdrm_radeon.pc
 amdgpu/Makefile
 amdgpu/libdrm_amdgpu.pc
 nouveau/Makefile
 nouveau/libdrm_nouveau.pc
 omap/Makefile
 omap/libdrm_omap.pc
 exynos/Makefile
 exynos/libdrm_exynos.pc
 freedreno/Makefile
 freedreno/libdrm_freedreno.pc
 tegra/Makefile
 tegra/libdrm_tegra.pc
 vc4/Makefile
 vc4/libdrm_vc4.pc
 etnaviv/Makefile
 etnaviv/libdrm_etnaviv.pc
 tests/Makefile
 tests/modeprint/Makefile
 tests/modetest/Makefile
 tests/kms/Makefile
 tests/kmstest/Makefile
 tests/proptest/Makefile
 tests/radeon/Makefile
 tests/amdgpu/Makefile
 tests/vbltest/Makefile
 tests/exynos/Makefile
 tests/tegra/Makefile
 tests/nouveau/Makefile
 tests/etnaviv/Makefile
 tests/util/Makefile
 man/Makefile
 libdrm.pc])
AC_OUTPUT

echo ""
echo
 "$PACKAGE_STRING will be compiled with:"
echo ""
echo "  libkms         $LIBKMS"
echo "  Intel API      $INTEL"
echo "  vmwgfx API     $VMWGFX"
echo "  Radeon API     $RADEON"
echo "  AMDGPU API     $AMDGPU"
```

```
echo "  Nouveau API    $NOUVEAU"
echo "  OMAP API       $OMAP"
echo "  EXYNOS API     $EXYNOS"
echo "  Freedreno API  $FREEDRENO (kgsl: $FREEDRENO_KGSL)"
echo "  Tegra API      $TEGRA"
echo "  VC4 API        $VC4"
echo "  Etnaviv API    $ETNAVIV"
echo ""
```

Found in path(s):
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/configure.ac
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright © 2008 Nicolai Haehnle
* Copyright © 2008 Jérôme Glisse
* All Rights Reserved.
*
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*/
```

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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/radeon/radeon_cs_gem.h
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/man/drm.xml
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/man/drm-memory.xml
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/man/drmModeGetResources.xml
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/libkms-test-framebuffer.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/libkms-test-screen.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/libkms-test-plane.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/libkms-test-device.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/libkms-test-crtc.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/kms-steal-crtc.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/vmwgfx.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/internal.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kmstest/main.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/intel.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/radeon.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/dumb.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/util/kms.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/util/format.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/ras_tests.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/uvd_enc_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/vcn_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/syncobj_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/vm_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/deadlock_tests.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/exynos_drmif.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/exynos_drm.c
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/* amdgpu_drm.h -- Public header for the amdgpu driver -*- linux-c -*-

```
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/freedreno/freedreno_device.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/freedreno/freedreno_ringbuffer.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/freedreno/freedreno_priv.h
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/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution. There are two potentially interesting things

* about this implementation:
*
* 1) The table is power-of-two sized. Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
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* Techniques for Creating Reusable Software. Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.
*
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Found in path(s):
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/hash.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/etnaviv/etnaviv_pipe.c
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.

[Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short. [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M. [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
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* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
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*
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* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
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*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence
Generator for 32-Bit
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*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/nouveau/threaded.c
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/* xf86drmSL.c -- Skip list support
* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/nouveau/nouveau.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/nouveau/abi16.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/nouveau/pushbuf.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/bo_tests.c

* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/cs_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/amdgpu_test.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/nouveau/meson.build
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/freedreno/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/exynos/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kmstest/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/modetest/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/kms/meson.build
*

/libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/meson_options.txt
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/tegra/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/vbltest/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/nouveau/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/etnaviv/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/vc4/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/radeon/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/etnaviv/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/amdgpu/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/data/meson.build
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/libkms/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tegra/meson.build
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/intel/meson.build
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*   Gareth Hughes <gareth@valinux.com>
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/vce_tests.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/amdgpu/frame.h
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/exynos_fimg2d.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/fimg2d_reg.h
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/exynos/exynos_fimg2d.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/exynos/exynos_fimg2d_test.c

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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*

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* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

Found in path(s):
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/drmsl.c
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* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/modetest/buffers.c
* /libdrm-2-4-99-orig-1-tar-gz/libdrm-2.4.99/tests/modetest/modetest.c

1.437 lrzsz 0.13.0-alpha

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_common],
 c_args : [c_vis_args, no_override_init_args],
 cpp_args : [cpp_vis_args],
 dependencies : idep_nir_headers,
 build_by_default : false,
)
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1.440 libusb-compat 0.1.12-20

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1.444 duktape 2.2.0

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1.446 libtirpc 1.3.3

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1.447 linux-kernel 5.10.149

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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*
* M. Welsh, 6 July 1996
*
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1.448 iperf 3.1.3

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 * tcp_window_size.c
 * by Mark Gates <mgates@nlanr.net>
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 * set/getsockopt
 * ---------------------------------------------------------------- */
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```

```
 * by Mark Gates <mgates@nlanr.net>
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1.451 openssh 9.1

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* /win32-openssh-9-1-0-0p1-beta-tar-gz/Win32-OpenSSH-9.1.0.0p1-Beta/.github/workflows/releaseToWinGet.yml

1.452 glib 2.74.0

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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
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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 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.)

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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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(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 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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1.454 libwebsockets 3.1.99

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1.455 safestring 2.0

1.455.1 Available under license :

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* October 2008, Bo Berry
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```
/*------------------------------------------------------------------
* strljustify_s.c
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```

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```
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* mem_primitives_lib.c - Unguarded Memory Copy Routines
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* February 2005, Bo Berry
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*------------------------------------------------------------------
```

```
*/
```

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```
/*------------------------------------------------------------------
* strcasestr_s.c
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```

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```
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* safe_string.h
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```

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/safe_string.h
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/*--
* strstr_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strstr_s.c
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/*--
* safe_mem_constraint.h
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_mem_constraint.h
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/*--
* strremovews_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strremovews_s.c
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* strzero_s.c
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* mem_primitives_lib.h - Unguarded Memory Copy Routines
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/include/mem_primitives_lib.h
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/*--
* strcat_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strcat_s.c
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/*--
* strispassword_s.c
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/*--
* safe_str_constraint.h
*
* October 2008, Bo Berry

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/safe_str_constraint.h
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/*--
* strlastsame_s.c
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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastsame_s.c
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/*--
* safe_limits.h -- limits include for portability
*
* February 2009, Bo Berry
*

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/*--
* strlastchar_s.c
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Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strlastchar_s.c
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/*--
* strncat_s.c
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*--
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* strcpyfldin_s.c
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Found in path(s):
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/*--
* strisuppercase_s.c
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* October 2008, Bo Berry
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*/

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* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strisuppercase_s.c
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/*--
* strislowercase_s.c
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```
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* safe_types.h -- types include for portability
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*/
```

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```
/*------------------------------------------------------------------
* strprefix_s.c
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*/
```

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strprefix_s.c
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```
/*------------------------------------------------------------------
* safe_lib.h -- library include for portability
```

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* strncpy_s.c
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* October 2008, Bo Berry
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*/

Found in path(s):
* /safe-lib-2-0-1-tar-gz/safe_lib_2_0/src/safe_string/strncpy_s.c
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/*--
* strishex_s.c
*
* October 2008, Bo Berry

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Found in path(s):
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* strpbrk_s.c
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*/

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* strtok_s.c
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1.456 libnsl 2.13

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```
/*===-- clang-c/Platform.h - C Index platform decls  ----------*- C -*-===*\
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|*                                                                            *|
|*============================================================================*|
|*                                                                            *|
|* This header provides platform specific macros (dllimport, deprecated, ...) *|
|*                                                                            *|
\*===----------------------------------------------------------------------===*/
```

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1.459 libuuid 1.3.0

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.463 boost 1.81.0

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1.464 systemd 3.2

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

 This license, the Lesser General Public License, applies to some
specially designated software---typically
 libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

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

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

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

 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
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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
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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
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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
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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
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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.

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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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possible use to the public, we recommend making it free software that
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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
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@smallexample
@var{one line to give the library's name and an idea of what it does.}

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USA.
@end
 smallexample

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You should also get your employer (if you work as a programmer) or your
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Whether that is true depends on what the
Program does.

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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  };

  untrusted {
     /* define OCALLs here. */

  };
};

1.467 star 1.5.2

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

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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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for 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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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 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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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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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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That's all there is to it!

1.470 gobject-introspection 1.56.1

1.470.1 Available under license :

gobject-introspection has two licenses; one for the typelib library,
and one for the tools.

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licensed under the LGPLv2+. See the file COPYING.LGPL.

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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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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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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.

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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 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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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.

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1.472 u-boot 2019.10

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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
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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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1.473 openssh 9.1p1

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1.474 libdrm 2.4.91

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wpSPwfaL/libdrm-2.4.91/omap/omap_drm.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/omap/omap_drm.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/amdgpu/util_hash_table.c

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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/cmdstream.xml.h
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* Authors: Ben Skeggs
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/nouveau/pushbuf.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/nouveau/bufctx.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/nouveau/abi16.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/nouveau/nouveau.c
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* Inki Dae <inki.dae@samsung.com>
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/exynos/exynos_fimg2d.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/exynos/fimg2d_reg.h
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/exynos/exynos_fimg2d.h
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/exynos/exynos_fimg2d_test.c
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* Authors:
*   Christian Gmeiner <christian.gmeiner@gmail.com>
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/etnaviv_bo_cache.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/etnaviv_bo_cache_test.c

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* Authors:
*    Jerome Glisse <j.glisse@gmail.com>
*/
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/radeon/rbo.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/radeon/radeon_ttm.c

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```
/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com
*
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution.  There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized.  Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
* With a table size of 512, the current implementation is sufficient for a
* few hundred keys.  Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises.  A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table.  The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
```

```
* REFERENCES
*
* [Hanson97] David R. Hanson.  C Interfaces and Implementations:
* Techniques for Creating Reusable Software.  Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming.  Volume 3:
* Sorting and Searching.  Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables".  CACM 31(4), April
* 1988, pp. 446-457.
*
*/
```

Found in path(s):
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/hash.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/xf86drmHash.c
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AC_PREREQ([2.63])
AC_INIT([libdrm],
      [2.4.91],
      [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
      [libdrm])
```

```
AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])
PKG_PROG_PKG_CONFIG

# Require xorg-macros minimum of 1.12 for XORG_WITH_XSLTPROC
m4_ifndef([XORG_MACROS_VERSION],
      [m4_fatal([must install xorg-macros 1.12 or later before running autoconf/autogen])])
XORG_MACROS_VERSION(1.12)
XORG_WITH_XSLTPROC
XORG_MANPAGE_SECTIONS

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

# Check for programs
AC_PROG_CC
AC_PROG_CC_C99
AC_PROG_NM

if test "x$ac_cv_prog_cc_c99" = xno; then
 AC_MSG_ERROR([Building libdrm
 requires C99 enabled compiler])
fi

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

save_CFLAGS="$CFLAGS"
export CFLAGS="$CFLAGS -Werror"
AC_HEADER_MAJOR
CFLAGS="$save_CFLAGS"

AC_CHECK_HEADERS([sys/sysctl.h sys/select.h])

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

dnl pthread-stubs is mandatory on some BSD platforms, due to the nature of the
dnl project. Even then there's a notable issue as described in the project README
case "$host_os" in
linux* | cygwin* | darwin* | solaris* | *-gnu* | gnu* | openbsd*)
  pthread_stubs_possible="no"
```

```
  ;;
* )
  pthread_stubs_possible="yes"
  ;;
esac

if test "x$pthread_stubs_possible" = xyes; then
  PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs >= 0.4)
  AC_SUBST(PTHREADSTUBS_CFLAGS)
  AC_SUBST(PTHREADSTUBS_LIBS)
fi

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
libdrmdatadir=${datadir}/libdrm
AC_SUBST(libdrmdatadir)

AC_ARG_ENABLE([udev],
        [AS_HELP_STRING([--enable-udev],

                [Enable support for using udev instead of mknod (default: disabled)])],
        [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
    AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto, enabled on supported platforms)]),
    [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
    AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto, enabled on x86)]),
    [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
    AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)]),
    [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(amdgpu,
    AS_HELP_STRING([--disable-amdgpu],
    [Enable support for amdgpu's KMS API (default: auto)]),
    [AMDGPU=$enableval], [AMDGPU=auto])

AC_ARG_ENABLE(nouveau,
    AS_HELP_STRING([--disable-nouveau],
    [Enable support for nouveau's KMS API (default: auto)]),
```

```
    [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE(vmwgfx,
      AS_HELP_STRING([--disable-vmwgfx],
      [Enable support for vmwgfx's KMS API (default: yes)]),
      [VMWGFX=$enableval], [VMWGFX=yes])

AC_ARG_ENABLE(omap-experimental-api,
      AS_HELP_STRING([--enable-omap-experimental-api],
      [Enable support for OMAP's experimental API (default: disabled)]),
      [OMAP=$enableval], [OMAP=no])

AC_ARG_ENABLE(exynos-experimental-api,
      AS_HELP_STRING([--enable-exynos-experimental-api],
      [Enable support for EXYNOS's experimental API (default: disabled)]),
      [EXYNOS=$enableval], [EXYNOS=no])

AC_ARG_ENABLE(freedreno,
      AS_HELP_STRING([--disable-freedreno],
      [Enable support for freedreno's KMS API (default: auto, enabled on arm)]),
      [FREEDRENO=$enableval], [FREEDRENO=auto])

AC_ARG_ENABLE(freedreno-kgsl,
      AS_HELP_STRING([--enable-freedreno-kgsl],
      [Enable support for freedreno's to use downstream android kernel API (default:
 disabled)]),
      [FREEDRENO_KGSL=$enableval], [FREEDRENO_KGSL=no])

AC_ARG_ENABLE(tegra-experimental-api,
      AS_HELP_STRING([--enable-tegra-experimental-api],
      [Enable support for Tegra's experimental API (default: disabled)]),
      [TEGRA=$enableval], [TEGRA=no])

AC_ARG_ENABLE(vc4,
      AS_HELP_STRING([--disable-vc4],
      [Enable support for vc4's API (default: auto, enabled on arm)]),
      [VC4=$enableval], [VC4=auto])

AC_ARG_ENABLE(etnaviv-experimental-api,
      AS_HELP_STRING([--enable-etnaviv-experimental-api],
      [Enable support for etnaviv's experimental API (default: disabled)]),
      [ETNAVIV=$enableval], [ETNAVIV=no])

AC_ARG_ENABLE(install-test-programs,
    AS_HELP_STRING([--enable-install-test-programs],
    [Install test programs (default: no)]),
    [INSTALL_TESTS=$enableval], [INSTALL_TESTS=no])
```

```
dnl ===========================================================================
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
 AC_MSG_CHECKING([whether
 $CC supports $1])

 libdrm_save_CFLAGS="$CFLAGS"
 CFLAGS="$CFLAGS $1"

 AC_COMPILE_IFELSE([AC_LANG_SOURCE([ ])], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
 CFLAGS="$libdrm_save_CFLAGS"

 if test "x$libdrm_cc_flag" = "xyes"; then
   ifelse([$2], , :, [$2])
 else
   ifelse([$3], , :, [$3])
 fi
 AC_MSG_RESULT([$libdrm_cc_flag])
])

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
          [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
                  [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked.  So there's no need to do anything
dnl else.  If for any reason you need to force a recheck, just change
dnl MAYBE_WARN
 in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra -Werror=undef \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline -Wshadow \
-Wno-missing-field-initializers"
```

```
# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
 unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
 echo
 WARN_CFLAGS=""

 # Some warning options are not supported by all versions of
 # gcc, so test all desired options against the current
 # compiler.
 #
 # Note that there are some order dependencies
 # here. Specifically, an option that disables a warning will
 # have
 no net effect if a later option then enables that
 # warnings, (perhaps implicitly). So we put some grouped
 # options (-Wall and -Wextra) up front and the -Wno options
 # last.

 for W in $MAYBE_WARN; do
  LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
 done

 libdrm_cv_warn_cflags=$WARN_CFLAGS
 libdrm_cv_warn_maybe=$MAYBE_WARN

 AC_MSG_CHECKING([which warning flags were supported])])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives, [
 drm_cv_atomic_primitives="none"

 AC_LINK_IFELSE([AC_LANG_PROGRAM([[
 int atomic_add(int *i) { return __sync_add_and_fetch (i, 1); }
 int atomic_cmpxchg(int *i, int j, int k) { return __sync_val_compare_and_swap (i, j, k); }
      ]],[[]])], [drm_cv_atomic_primitives="Intel"],[])

 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
 fi

 # atomic functions defined in <atomic.h>
 & libc on Solaris
 if test "x$drm_cv_atomic_primitives" = "xnone"; then
  AC_CHECK_FUNC([atomic_cas_uint], drm_cv_atomic_primitives="Solaris")
 fi
```

```
])

if test "x$drm_cv_atomic_primitives" = xIntel; then
 AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
  [Enable if your compiler supports the Intel __sync_* atomic primitives])
else
 AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 0)
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
 AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
else
 AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 0)
fi

dnl Print out the approapriate message considering the value set be the
dnl respective in $1.
dnl $1 - value to be evaluated. Eg. $INTEL, $NOUVEAU, ...
dnl $2 - libdrm shortname. Eg. intel, freedreno, ...
dnl $3 - GPU name/brand. Eg. Intel, NVIDIA Tegra, ...
dnl $4 - Configure switch. Eg. intel, omap-experimental-api, ...
AC_DEFUN([LIBDRM_ATOMICS_NOT_FOUND_MSG], [
 case "x$1" in
  xyes) AC_MSG_ERROR([libdrm_$2 depends upon
 atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the
libatomics-op-dev package, or, failing both of those, disable support for $3 GPUs by passing --disable-$4 to
./configure]) ;;
  xauto) AC_MSG_WARN([Disabling $2. It depends on atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.]) ;;
  *) ;;
 esac
])

if test "x$drm_cv_atomic_primitives" = "xnone"; then
 LIBDRM_ATOMICS_NOT_FOUND_MSG($INTEL, intel, Intel, intel)
 INTEL=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($RADEON, radeon, Radeon, radeon)
 RADEON=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($AMDGPU, amdgpu, AMD, amdgpu)
 AMDGPU=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($NOUVEAU, nouveau, NVIDIA, nouveau)
 NOUVEAU=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($OMAP, omap, OMAP, omap-experimental-api)
 OMAP=no
```

```
 LIBDRM_ATOMICS_NOT_FOUND_MSG($FREEDRENO, freedreno, Qualcomm Adreno, freedreno)
 FREEDRENO=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($TEGRA,
 tegra, NVIDIA Tegra, tegra-experimental-api)
 TEGRA=no

 LIBDRM_ATOMICS_NOT_FOUND_MSG($ETNAVIV, etnaviv, Vivante, etnaviv-experimental-api)
 ETNAVIV=no
else
 if test "x$INTEL" = xauto; then
  case $host_cpu in
   i?86|x86_64) INTEL=yes ;;
   *)  INTEL=no ;;
  esac
 fi
 if test "x$RADEON" = xauto; then
  RADEON=yes
 fi
 if test "x$AMDGPU" = xauto; then
  AMDGPU=yes
 fi
 if test "x$NOUVEAU" = xauto; then
  NOUVEAU=yes
 fi
 if test "x$FREEDRENO" = xauto; then
  case $host_cpu in
   arm*|aarch64) FREEDRENO=yes ;;
   *)  FREEDRENO=no ;;
  esac
 fi
 if test "x$VC4" = xauto; then
  case $host_cpu in
   arm*|aarch64) VC4=yes ;;
   *)  VC4=no ;;
  esac
 fi
fi

if test "x$INTEL" != "xno"; then
 PKG_CHECK_MODULES(PCIACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIACCESS_CFLAGS)
AC_SUBST(PCIACCESS_LIBS)

if test "x$UDEV" = xyes; then
 AC_DEFINE(UDEV, 1, [Have UDEV support])
fi
```

```
AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
 case $host_os in
  linux*)  LIBKMS="yes" ;;
  freebsd* |
 kfreebsd*-gnu)
    LIBKMS="yes" ;;
  dragonfly*) LIBKMS="yes" ;;
  *)  LIBKMS="no" ;;
 esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" = xyes])
if test "x$INTEL" = xyes; then
 AC_DEFINE(HAVE_INTEL, 1, [Have intel support])
else
 AC_DEFINE(HAVE_INTEL, 0)
fi

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
 AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
else
 AC_DEFINE(HAVE_VMWGFX, 0)
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
 AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
else
 AC_DEFINE(HAVE_NOUVEAU, 0)
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])

AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
 AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
else
 AC_DEFINE(HAVE_EXYNOS, 0)
fi

AM_CONDITIONAL(HAVE_FREEDRENO, [test "x$FREEDRENO" = xyes])

if test "x$FREEDRENO_KGSL" = xyes;
```

```
 then
 if test "x$FREEDRENO" != xyes; then
  AC_MSG_ERROR([Cannot enable freedreno KGSL interface if freedreno is disabled])
 fi
fi
AM_CONDITIONAL(HAVE_FREEDRENO_KGSL, [test "x$FREEDRENO_KGSL" = xyes])
if test "x$FREEDRENO_KGSL" = xyes; then
 AC_DEFINE(HAVE_FREEDRENO_KGSL, 1, [Have freedreno support for KGSL kernel interface])
else
 AC_DEFINE(HAVE_FREEDRENO_KGSL, 0)
fi

AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" = xyes])
if test "x$RADEON" = xyes; then
 AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
else
 AC_DEFINE(HAVE_RADEON, 0)
fi

if test "x$AMDGPU" != xno; then
 # Detect cunit library
 PKG_CHECK_MODULES([CUNIT], [cunit >= 2.1], [have_cunit=yes], [have_cunit=no])
 # If pkg-config does not find cunit, check it using AC_CHECK_LIB.  We
 # do this because Debian (Ubuntu) lacks pkg-config file for cunit.
 # fixed in 2.1-2.dfsg-3: http://anonscm.debian.org/cgit/collab-maint/cunit.git/commit/?h=debian
 if test "x${have_cunit}" = "xno"; then
  AC_CHECK_LIB([cunit], [CU_initialize_registry],
 [have_cunit=yes], [have_cunit=no])
  if test "x${have_cunit}" = "xyes"; then
   CUNIT_LIBS="-lcunit"
   CUNIT_CFLAGS=""
   AC_SUBST([CUNIT_LIBS])
   AC_SUBST([CUNIT_CFLAGS])
  fi
 fi
else
 have_cunit=no
fi
AM_CONDITIONAL(HAVE_CUNIT, [test "x$have_cunit" != "xno"])

AM_CONDITIONAL(HAVE_AMDGPU, [test "x$AMDGPU" = xyes])
if test "x$AMDGPU" = xyes; then
 AC_DEFINE(HAVE_AMDGPU, 1, [Have amdgpu support])

 if test "x$have_cunit" = "xno"; then
  AC_MSG_WARN([Could not find cunit library. Disabling amdgpu tests])
 fi
else
```

```
 AC_DEFINE(HAVE_AMDGPU, 0)
fi

AM_CONDITIONAL(HAVE_TEGRA, [test "x$TEGRA" = xyes])

AM_CONDITIONAL(HAVE_VC4, [test "x$VC4" = xyes])
if test "x$VC4" = xyes; then
 AC_DEFINE(HAVE_VC4, 1, [Have VC4 support])
else
 AC_DEFINE(HAVE_VC4, 0)
fi

AM_CONDITIONAL(HAVE_ETNAVIV, [test "x$ETNAVIV" = xyes])

AM_CONDITIONAL(HAVE_INSTALL_TESTS, [test "x$INSTALL_TESTS" = xyes])

AC_ARG_ENABLE([cairo-tests],
        [AS_HELP_STRING([--enable-cairo-tests],

    [Enable support for Cairo rendering in tests (default: auto)])],
        [CAIRO=$enableval], [CAIRO=auto])
if test "x$CAIRO" != xno; then
 PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
fi
AC_MSG_CHECKING([whether to enable Cairo tests])
if test "x$CAIRO" = xauto; then
 CAIRO="$HAVE_CAIRO"
fi
if test "x$CAIRO" = xyes; then
 if ! test "x$HAVE_CAIRO" = xyes; then
  AC_MSG_ERROR([Cairo support required but not present])
 fi
 AC_DEFINE(HAVE_CAIRO, 1, [Have Cairo support])
else
 AC_DEFINE(HAVE_CAIRO, 0)
fi
AC_MSG_RESULT([$CAIRO])
AM_CONDITIONAL(HAVE_CAIRO, [test "x$CAIRO" = xyes])

# xsltproc for docbook manpages
AC_ARG_ENABLE([manpages],
        AS_HELP_STRING([--enable-manpages], [enable manpages @<:@default=auto@:>@]),
        [MANS=$enableval], [MANS=auto])
AM_CONDITIONAL([BUILD_MANPAGES], [test "x$XSLTPROC" != "x" -a "x$MANS" != "xno"])

# check for offline man-pages stylesheet
AC_MSG_CHECKING([for docbook manpages stylesheet])
MANPAGES_STYLESHEET="http://docbook.sourceforge.net/release/xsl/current/manpages/docbook.xsl"
```

```
AC_PATH_PROGS_FEATURE_CHECK([XSLTPROC_TMP],
 [xsltproc],
                    AS_IF([`"$ac_path_XSLTPROC_TMP" --nonet "$MANPAGES_STYLESHEET" > /dev/null
2>&1`],
                          [HAVE_MANPAGES_STYLESHEET=yes]))
if test "x$HAVE_MANPAGES_STYLESHEET" = "xyes"; then
      AC_SUBST(MANPAGES_STYLESHEET)
      AC_MSG_RESULT([yes])
else
      AC_MSG_RESULT([no])
fi
AM_CONDITIONAL([HAVE_MANPAGES_STYLESHEET], [test "x$HAVE_MANPAGES_STYLESHEET" =
"xyes"])

AC_ARG_ENABLE(valgrind,
           [AS_HELP_STRING([--enable-valgrind],
                     [Build libdrm with  valgrind support (default: auto)])],
                     [VALGRIND=$enableval], [VALGRIND=auto])
if test "x$VALGRIND" != xno; then
 PKG_CHECK_MODULES(VALGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
fi
AC_MSG_CHECKING([whether to enable Valgrind support])
if test "x$VALGRIND" = xauto; then
 VALGRIND="$have_valgrind"
fi

if
 test "x$VALGRIND" = "xyes"; then
 if ! test "x$have_valgrind" = xyes; then
  AC_MSG_ERROR([Valgrind support required but not present])
 fi
 AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
else
 AC_DEFINE([HAVE_VALGRIND], 0)
fi

AC_MSG_RESULT([$VALGRIND])

AC_ARG_WITH([kernel-source],
          [AS_HELP_STRING([--with-kernel-source],
            [specify path to linux kernel source])],
    [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_MSG_CHECKING([whether $CC supports __attribute__(("hidden"))])
AC_LINK_IFELSE([AC_LANG_PROGRAM([
  int foo_hidden( void ) __attribute__((visibility("hidden")));
])], HAVE_ATTRIBUTE_VISIBILITY="yes"; AC_MSG_RESULT([yes]), AC_MSG_RESULT([no]));
```

```
if test "x$HAVE_ATTRIBUTE_VISIBILITY" = xyes; then
  AC_DEFINE(HAVE_VISIBILITY, 1, [Compiler supports __attribute__(("hidden"))])
fi

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
 Makefile
 data/Makefile
 libkms/Makefile
 libkms/libkms.pc
 intel/Makefile
 intel/libdrm_intel.pc
 radeon/Makefile
 radeon/libdrm_radeon.pc
 amdgpu/Makefile
 amdgpu/libdrm_amdgpu.pc
 nouveau/Makefile
 nouveau/libdrm_nouveau.pc
 omap/Makefile
 omap/libdrm_omap.pc
 exynos/Makefile
 exynos/libdrm_exynos.pc
 freedreno/Makefile
 freedreno/libdrm_freedreno.pc
 tegra/Makefile
 tegra/libdrm_tegra.pc
 vc4/Makefile
 vc4/libdrm_vc4.pc
 etnaviv/Makefile
 etnaviv/libdrm_etnaviv.pc
 tests/Makefile
 tests/modeprint/Makefile
 tests/modetest/Makefile
 tests/kms/Makefile
 tests/kmstest/Makefile
 tests/proptest/Makefile
 tests/radeon/Makefile
 tests/amdgpu/Makefile
 tests/vbltest/Makefile
 tests/exynos/Makefile
 tests/tegra/Makefile
 tests/nouveau/Makefile
 tests/etnaviv/Makefile
 tests/util/Makefile
 man/Makefile
 libdrm.pc])
AC_OUTPUT
```

```
echo
 ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo "  libkms         $LIBKMS"
echo "  Intel API      $INTEL"
echo "  vmwgfx API     $VMWGFX"
echo "  Radeon API     $RADEON"
echo "  AMDGPU API     $AMDGPU"
echo
 "  Nouveau API    $NOUVEAU"
echo "  OMAP API       $OMAP"
echo "  EXYNOS API     $EXYNOS"
echo "  Freedreno API  $FREEDRENO (kgsl: $FREEDRENO_KGSL)"
echo "  Tegra API      $TEGRA"
echo "  VC4 API        $VC4"
echo "  Etnaviv API    $ETNAVIV"
echo ""
```

Found in path(s):
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/configure.ac
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*
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The rules-ng-ng source files this header was generated from are:
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- common.xml (20583 bytes, from 2016-09-06 14:14:12)
- state_hi.xml (25653 bytes, from 2016-09-06 14:45:17)
- copyright.xml (1597 bytes, from 2016-09-06 14:44:16)
- state_2d.xml (51552 bytes, from 2016-09-06 14:44:16)
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- state_vg.xml (5975 bytes, from 2016-09-06 14:44:16)

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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/state.xml.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/xf86drmMode.h
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*
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* Inki Dae <inki.dae@samsung.com>
* Joonyoung Shim <jy0922.shim@samsung.com>
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```
/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
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*    Jeff Hartmann <jhartmann@valinux.com>
*    Keith Whitwell <keith@tungstengraphics.com>
*
* Rewritten by:
*    Gareth Hughes <gareth@valinux.com>
*/
```

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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
  [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short.  [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M.  [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
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* Number Generators". CACM 36(7), July 1993, pp. 105-110.
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/modetest/buffers.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/modeprint/modeprint.c
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```
/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-
*
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* Authors:
*   Kevin E. Martin <martin@valinux.com>
*   Gareth Hughes <gareth@valinux.com>
*   Keith Whitwell <keith@tungstengraphics.com>
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Found in path(s):
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/include/drm/radeon_drm.h
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```
/*
* DRM based mode setting test program
* Copyright (C) 2013 Red Hat
* Author: Rob Clark <robdclark@gmail.com>
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*   Christian Gmeiner <christian.gmeiner@gmail.com>
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/etnaviv_cmd_stream_test.c
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/*
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wpSPwfaL/libdrm-2.4.91/intel/uthash.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/libkms-test-device.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/libkms-test-crtc.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/kms-universal-planes.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/libkms-test-screen.c
*
 /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/kms-steal-crtc.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/libkms-test.h
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/libkms-test-plane.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/etnaviv_device.c
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* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*

```
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh.  Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/
```

Found in path(s):
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/drmsl.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/xf86drmHash.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/util/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/data/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/nouveau/meson.build
*
/libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/libkms/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/radeon/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/proptest/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/exynos/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/radeon/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/meson.build
*
/libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/intel/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/exynos/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/modetest/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/meson_options.txt

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*
/libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/amdgpu/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/kms/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/man/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/amdgpu/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/freedreno/meson.build
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*
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/tegra/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/vc4/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/omap/meson.build
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/meson.build
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/amdgpu/vce_ib.h
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/amdgpu/vce_tests.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/radeon/bof.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/amdgpu/util_hash.h
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/etnaviv_pipe.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/tests/etnaviv/etnaviv_2d_test.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/etnaviv_drmif.h
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/etnaviv/etnaviv_priv.h
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*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
*/

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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/xf86drmSL.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/freedreno/kgsl/kgsl_ringbuffer.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/freedreno/msm/msm_device.c
* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/freedreno/msm/msm_ringbuffer.c
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* /libdrm-2.4.91-3.el7.src.rpm-cosi-expand-archive-rPtvHlRp/libdrm-2.4.91.tar.bz2-cosi-expand-archive-wpSPwfaL/libdrm-2.4.91/freedreno/kgsl/kgsl_priv.h
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1.475 systemd 246-5

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1.476 systemd 3.2.7

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1.478 systemd v247

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

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

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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.

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

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(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 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.)

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will operate
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1.480 tomcat-jasper 1.900.1-33.el7

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1.481 bzip2 1.0.6-13.el7

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`show w' and `show c' should show the appropriate
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1.483 mini-xml 2.6

1.483.1 Available under license :

Mini-XML License
October 18, 2005

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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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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!

1.484 stlport 5.2.1

1.484.1 Available under license :

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  SUMMARY: Configuration #defines for STL EH test suite

***/

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  SUMMARY: Declarations of all of the tests in the exception test suite.

***/

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 test_hash_resize.h

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*
*/

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_old.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_base.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iterator_base.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function.h
No license file was found, but licenses were detected in source scan.

/**
 TestController.h

   SUMMARY: An "faux-singleton" object to encapsulate a hodgepodge of state and
     functionality relating to the test suite. Probably should be broken
     into smaller pieces.

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/num_put.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/complex.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/details/fstream_stdio.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/details/fstream_unistd.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ostream.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_num_put.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_monetary.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/istream.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/time_facets.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_istream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/monetary.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_iomanip.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/locale_catalog.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_time_facets.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/iostream.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/locale.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/locale
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iosfwd
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/message_facets.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/facets_byname.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_codecvt.h
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 /stlport-5-2-1-tar-gz/STLport-5.2.1/src/complex_io.cpp
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/messages.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_istream.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_collate.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/stdio_streambuf.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/locale_impl.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_sstream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/num_put_float.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/collate.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/sstream.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/streambuf
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/strstream.cpp
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/ctype.cpp
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_valarray.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_fstream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_num_get.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/sstream
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_strstream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_num_put.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/num_get_float.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ios_base.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ctype.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ios.c
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/acquire_release.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/numpunct.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_istreambuf_iterator.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/ios.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/stdio_streambuf.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_monetary.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numpunct.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream

* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_streambuf.c
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==========
STLport README for Microsoft Visual C++ compilers.
==========

by: Francois Dumont, dums@stlport.com, last edited 08/02/2005

==========
Introduction
==========
This document describes how STLport can be compiled and used with Microsoft Visual C++ 6 SP5. It can also be used for the MSVC++ family.

For any further comments or questsion visit STLport mailing lists http://stlport.sourceforge.net/Maillists.shtml or forums https://sourceforge.net/forum/?group_id=146814

==========
Prerequisites
==========
To build and use STLport you will need following tools and libraries:
- Microsoft Visual C++ 6.0 with at least Service Pack 5 or any higher version.

==========
Configuring STLport
==========
In a console window go to the STLport build/lib folder. Run

```
configure --help
```

This command will present you the different available build options. Just follow the instructions to set STLport configuration according your needs. The only mandatory configuration is to declare what is the compiler you are going to use, for MSVC 6 it is:

```
configure -c msvc6
```

==========
Building STLport
==========
This is a step by step description of the actions to take in order to have the STLport library built:

1. Open a console window. You can get it executing cmd or command depending

on your Windows OS.

2. Go to MSVC++ Bin directory with a default MSVC6 install it is
cd "C:\Program Files\Microsoft Visual Studio\VC98\Bin"

3. Run the vcvars32.bat script. This sets the environment variables required
to have the MSVC++ compiler run during the build process. The most important
one is the PATH variable so that you can call the cl.exe command which is the
MSVC++ command line compiler. [You may omit this step, if you chose 'Install paths
to access command-line tools' during Microsoft Visual Studio installation
procedure.]

4. Go to the STLport build/lib folder:
cd C:\STLport\build\lib

5. Run the following command:
nmake /fmsvc.mak install

nmake is the make utility from Microsoft. /f is an nmake option
telling it which make file script to use. You have of course to grant the
closer make file to your effective compiler, msvc.mak in our case.

Once the command returns, you will have all the necessary libraries within
the STLport lib folder. For a description of the generated libraries check the README
file within the src folder.

==========
Testing STLport
==========
You can use the unit tests to verify STLport behaves correctly. Change into
STLports 'build/test/unit' folder and type:

nmake /fmsvc.mak install

Once the unit test is built you just need to run it. They can be found
within the STLport bin folder.

==========
Using STLport
==========
Adjust your include and link paths in MSVC IDE (in 'Tools -> Options -> Directories'
for MSVC6 IDE). In the include
files add the path to STLport's 'stlport' folder.
Make sure it is the first directory listed there. Add STLport's 'lib' folder for
the library files (order of paths doesn't matter here).

There are some preprocessor defines that control usage of the STLport in msvc
projects:

If you don't want to use the iostreams part of the library, you can specify the
define _STLP_NO_IOSTREAMS. In this mode there is no need to link against the
library.

STLport uses automatic linking to find the proper .lib file. If you want to see
what import library STLport is going to use, define _STLP_VERBOSE_AUTO_LINK.
When not using automatic linking (by specifying _STLP_DONT_USE_AUTO_LINK), you
have to specify the proper .lib file in the Project Settings, on the "link" tab.
The .lib names have the following syntax:

stlport[d|stld][_x,_static,_statix].<STLport-Version>.lib

d : debug build
stld: debug build with _STLP_DEBUG (STL safe) mode
_x: Build of STLport as a dll but statically link to the
native runtime.
_static : build of a static library
_statix : build of a static library link dynamically to the native runtime.

Examples:

stlport_static.5.0.lib - static release version, Version 5.0.0
stlportd.5.0.lib - dll debug version, Version 5.0.0

When using STLport together with MFC, be sure to include the MFC headers first,
then include STLport headers, e.g. in your Stdafx.h. This way STLport correctly
recognizes MFC usage. You also can define the macro _STLP_USE_MFC, either in
your project settings or in stlport/stl/config/user_config.h.

In order to enhance debugging with STLport you can optionally add the content of
the etc/autoexp.dat file in the autoexp.dat file coming with your Visual Studio
install.

Now you should be ready to use STLport.

==========
Known issues
==========

1. InterlockedIncrement

If you experiment trouble with the InterlockedIncrement Win32 API function
like the following message:

C:\Program Files\Microsoft SDK\Include\.\winbase.h(1392)
: error C2733: second C
linkage of overloaded function 'InterlockedIncrement' not allowed

C:\Program Files\Microsoft SDK\Include\.\winbase.h(1390) : see declaration of
'InterlockedIncrement'

It means that you are using the new Microsoft platform SDK. There is no
way to known it from STLport code so you have to signal it in the
stlport/stl/config/user_config.h file (uncomment _STLP_NEW_PLATFORM_SDK in this file).

2. Native C/C++ library headers location

If you experiment trouble with location of ctime and other Standard headers
while building or using STLport you might be using the compiler coming with a
platform SDK. If so please uncomment _STLP_USING_PLATFORM_SDK_COMPILER in
stlport/stl/config/user_config.h. If it still do not find native headers you will
perhaps need to change native headers relative path used by STLport. In this case use
_STLP_NATIVE_INCLUDE_PATH and associated macro in stlport/stl/config/host.h.

4. C symbols in std namespace

The compiler of MSVC++
6 has a bug when dealing with symbols existant in both
the global namespace and symbols imported by a using-directive or a
using-declaration - it will report an ambiguous call to an overloaded
function (error C2668). Example:

```
void function();
namespace ns {
  void function();
  // or:
  // using ::function;
}

using ns::function;
// or:
// using namespace ns;

void call() {
  function();
}
```

Since we anticipate that using-declarations or even using-directives are common
use, STLport by default doesn't import or wrap functions that exist in both the
global namespace and namespace std, in particular those are functions with C
origin like fopen() or abs(). Also, it defines additional overloads for
functions like abs() (overloaded for int, long, float, double, long double) in
the global namespace.

In order to make STLport include them in the std namespace, you can define the
_STLP_DO_IMPORT_CSTD_FUNCTIONS macro. Doing so, you will have to explicitely

scope all your functions calls
like std::abs() though - otherwise you only get
the global abs(int) from the C library.

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/doc/README.msvc
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test_slist.cpp

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```
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*
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*/
/*
* Boris : simulation technique is used here according to Adobe Open Source License Version 1.0.
* Copyright 2000 Adobe Systems Incorporated and others. All rights reserved.
* Authors: Mat Marcus and Jesse Jones
* The original version of this source code
may be found at
* http://opensource.adobe.com.
*/

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_iterator.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_debug.h
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```
/*****************************************************************************
 test_push_back.h

   Interface for the test_push_back class

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_vector.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_tools.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_sum_methods.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_operators.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_sum.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_string_sum_methods.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/pointers/_list.h

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_map.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_workaround.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_unordered_set.h
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```
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 test_list.cpp
```

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Found in path(s):
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_function_adaptors.h
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/stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/mwerks_console_OS_X.c: binary file matches

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Found in path(s):
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_base.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_windows.h
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/**
 test_string.cpp

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_string.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/test_valarray.cpp
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*/
// version.

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/_cray.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_mycomp.h
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*/

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits

* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_fwd.h
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****
* README file for STLport 5.0   *
*   *
****

This directory contains the STLport-5.0 release.

What's inside :

README   - this file
INSTALL   - installation instructions

bin   - installation directory for STLport unit tests;
                it may contain more subdirs, if you use
                crosscompilation
build/lib   - build directory for STLport library (if you use
                STLport iostreams and/or locale only)
build/test/unit - build directory for regression (unit) tests
build/test/eh   - build directory for exception handling tests
stlport   - main STLport include directory
src   - source for iostreams implementation
 and other parts
                that aren't pure template code
lib   - installation directory for STLport library (if you
                use STLport iostreams and/or locale only);

it may contain more subdirs, if you use
crosscompilation
test/unit - unit (regression) tests
test/eh - exception handling test using STLport iostreams
etc - miscellanous files (ChangeLog, TODO, scripts, etc.)

GETTING STLPORT

To download the latest version of STLport, please be sure to visit
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/README
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/* boost limits_test.cpp test your <limits> file for important
*

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/bitset
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/bitset.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bitset.h
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/**
 test_assign_op.h

   SUMMARY: Test functor template for assignment operators.

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*
*/
/* Default values based on C++ Standard 22.2.1.
* Under Windows the localisation implementation take care of mapping its
* mask values to those internal values. For other platforms without real
* localization support we are free to use the most suitable values.*/

Found in path(s):
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/c_locale.h
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 test_hash_set.cpp

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/sunos/sys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/gcc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/targetdirs.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/vc6.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/rules-a.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/sysid.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/bcc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/unix/rules-so.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/linux/targetsys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/icc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/CC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/bcc.mak
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/rules.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/unix/rules-install-so.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/clean.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/darwin/sys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/hp-ux/sys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/rules-install-a.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/sunos/targetsys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/aCC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/CC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/extern.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/hp-ux/targetsys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/aCC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/gcc.mak
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/vc6.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/targets.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/clean.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/Makefile
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/dmc.mak

* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/lib/top.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/icc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/subdirs.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/top.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/sys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/top.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/icc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/darwin/targetsys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/CC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/unix/lib.mak
*
/stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/depend.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/darwin/lib.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/gcc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/freebsd/targetsys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/aCC.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/rules-install.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/bcc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/app/dmc.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/linux/sys.mak
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/Makefiles/gmake/dmc.mak
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*
* Modified CRP 7/10/00 for improved conformance / efficiency on insert_unique /

* insert_equal with valid hint -- efficiency is improved all around, and it is
* should now be standard conforming for complexity
 on insert point immediately
* after hint (amortized constant time).
*
*/

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Found in path(s):
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_deque.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_queue.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stack
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algobase.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_list.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/deque
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_bvector.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread_alloc
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algo.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_tree.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_uninitialized.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_vector.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_deque.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_construct.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hash_set.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/map
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stack.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iterator
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_raw_storage_iter.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hashtable.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/list
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/set
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/dll_main.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_pair.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_set.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/algorithm
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algo.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_algobase.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/queue
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tree.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_hashtable.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_hash_map.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_pthread_alloc.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_map.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.h
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/**
 SortClass.h

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SUMMARY: A class designed to test operations that compares objects. All
comparisons on SortClass may fail. Also records its own address for
the sake of testing the stability of sorting algorithms.

**********/

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_vector.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_list.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_valarray.c
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_tempbuf.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_heap.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.c
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  SUMMARY: TestClass simulates a class that uses resources. It is designed to
    cause exceptions when it is constructed or copied.

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_threads.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/lock_free_slist.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/memory
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_io.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_hash.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/unordered_set
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iomanip.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/typeinfo
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_csignal.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/strstream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_typeinfo.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_mbstate_t.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ios.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/float.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdarg
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/clocale
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/locale.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cerrno
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_new.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/wchar.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/exception.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_clocale.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/string.h

* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cwchar.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdio
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cmath
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/fstream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/istream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctype.h
*
/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cctype.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/wctype.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/time.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/new.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdio.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iostream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstring
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_csetjmp.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdlib.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/typeinfo.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwchar
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stddef.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csetjmp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ciso646
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cassert
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cwctype
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cmath.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/errno.h
*
/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/iso646.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdlib.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/signal.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ctime
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstddef.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_ctime.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/ostream.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cwctype.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/stl_confix.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/limits.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/setjmp.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cstdlib
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cctype
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdarg.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/cfloat
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/math.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/climits
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdio.h
*
/stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/mem.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstring.h

* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/pthread.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/csignal
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 test_algo.cpp

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/src/allocators.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/debug/_slist.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_alloc.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_rope.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_slist_base.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_numeric.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/utility
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/numeric
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/**

test_bit_vector.cpp

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 ThrowCompare.h

   Interface for the ThrowCompare class

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/config/user_config.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_cstdarg.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/eh/random_number.cpp
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Quick start.

GNU Make (Linux, OpenBSD, FreeBSD, CygWin, etc.), with gcc:

```
make -f gcc.mak depend
make -f gcc.mak install
```

GNU Make (SunOS), with SunPro CC:

```
make -f CC.mak depend
make -f CC.mak install
```

Microsoft NMAKE (MS Windows), with VC6:

```
nmake /fmsvc.mak install
```

Make system goals.

- all source files declared in one place (for all platforms and compilers); the same is for base library (application) name and version.
- derive object filenames from source filenames in make system
- source files may be situated in few catalogs
- avoid information duplication, if possible
- support cross-compilation

Make targets.

release-static

build STLport as static library

dbg-static

build STLport as static library (with debug information)

stldbg-static

build STLport as static library (STLP_DEBUG mode, with debug information)

release-shared

build STLport
as dynamic (shared) library

dbg-shared

STLport as dynamic (shared) library (with debug information)

stldbg-shared

build STLport as dynamic (shared) library (STLP_DEBUG mode, with
debug information)

all (default)

cumulative target for release,dbg,stldbg -shared on Unix-lile platforms
and plus release,dbg,stldbg -static on Windows.

depend

create dependency files (for performance reasons dependency not created
during compilation process); this target absent for MS NMAKE (due to pure
scripting opportunities)

install-release-shared
install-dbg-shared
install-stldbg-shared
install-release-static
install-dbg-static
install-stldbg-static

build and install appropriate libraries and related files, into
'STLport/lib' and 'STLport/bin' (../../lib, relative position of this file)

install

cumulative target for install-*-shared on Unix-like platforms and
install-*-* on Windows.

clean

remove all intermediate
files

Found in path(s):
* /stlport-5-2-1-tar-gz/STLport-5.2.1/build/lib/README

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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stdexcept
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_map
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_fstream.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_rope.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept_base.c
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept_base.h
*
 /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_stdexcept.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/hash_set
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/char_traits.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_string_npos.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/type_manips.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/stlport/stl/_move_construct_fwk.h
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* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/test_main.cpp
* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/file_reporter.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_proxy.h
* /stlport-5-2-1-tar-gz/STLport-5.2.1/test/unit/cppunit/cppunit_mini.h
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1.485 selinux 2.5-14.1.el7

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1.486 thttpd 1.19

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1.487 pjnath 1.8.1

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* /pjnath-zip/pjnath/src/pjturn-srv/auth.c
* /pjnath-zip/pjnath/src/pjnath-test/ice_test.c
* /pjnath-zip/pjnath/include/pjnath/errno.h
* /pjnath-zip/pjnath/include/pjnath/nat_detect.h
* /pjnath-zip/pjnath/include/pjnath/turn_session.h
* /pjnath-zip/pjnath/src/pjturn-srv/main.c
* /pjnath-zip/pjnath/include/pjnath/turn_sock.h
* /pjnath-zip/pjnath/src/pjnath-test/server.c
* /pjnath-zip/pjnath/src/pjnath/nat_detect.c
* /pjnath-zip/pjnath/src/pjturn-srv/server.c
* /pjnath-zip/pjnath/src/pjnath-test/main.c
* /pjnath-zip/pjnath/include/pjnath/stun_config.h
* /pjnath-zip/pjnath/src/pjnath-test/test.c
* /pjnath-zip/pjnath/src/pjnath/stun_transaction.c
* /pjnath-zip/pjnath/src/pjnath-test/test.h
* /pjnath-zip/pjnath/include/pjnath/stun_sock.h
* /pjnath-zip/pjnath/include/pjnath/ice_session.h
* /pjnath-zip/pjnath/src/pjturn-srv/turn.h
*
 /pjnath-zip/pjnath/src/pjturn-srv/listener_tcp.c
* /pjnath-zip/pjnath/include/pjnath/types.h
* /pjnath-zip/pjnath/include/pjnath/stun_msg.h
* /pjnath-zip/pjnath/src/pjnath-test/sess_auth.c
* /pjnath-zip/pjnath/include/pjnath/ice_strans.h
* /pjnath-zip/pjnath/include/pjnath.h

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* /pjnath-zip/pjnath/src/pjnath/stun_session.c
* /pjnath-zip/pjnath/src/pjnath/stun_sock.c
* /pjnath-zip/pjnath/src/pjturn-client/client_main.c
* /pjnath-zip/pjnath/include/pjnath/stun_auth.h
* /pjnath-zip/pjnath/src/pjnath-test/server.h
* /pjnath-zip/pjnath/src/pjnath/ice_strans.c
* /pjnath-zip/pjnath/include/pjnath/config.h
* /pjnath-zip/pjnath/src/pjnath/stun_msg.c
* /pjnath-zip/pjnath/src/pjturn-srv/auth.h
* /pjnath-zip/pjnath/src/pjturn-srv/listener_udp.c
* /pjnath-zip/pjnath/src/pjnath/errno.c
* /pjnath-zip/pjnath/src/pjnath/turn_session.c
* /pjnath-zip/pjnath/include/pjnath/stun_session.h
* /pjnath-zip/pjnath/src/pjnath-test/stun.c
* /pjnath-zip/pjnath/src/pjnath-test/turn_sock_test.c
*
/pjnath-zip/pjnath/src/pjnath/stun_auth.c

1.488 alsa 1.0.13

1.488.1 Available under license :

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Version 2.1, February 1999

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* in C (faster - it is executed many times during system startup).
*
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1.490 sysv-init 2.88

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* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.491 sysv-init 2.86

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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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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
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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 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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1.495 u-boot 2012.04.01

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1.496 mbed-tls 2.27.0

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*
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```

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```

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* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/asn1.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/md5.h

* /mbedtls-2-27-tar-gz/mbedtls-2.27/RSA_SHA256/common.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/bignum.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/ecdsa.h
*
 /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/cipher.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/ripemd160.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/x509.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/ecp.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/md.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/bn_mul.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/platform_util.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/check_config.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/sha512.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/oid.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/platform_time.h
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*
* This file is part of mbed TLS (https://tls.mbed.org)
*
*
* This file declares some RSA-related helper functions useful when
* implementing the RSA interface. They are public and provided in a
* separate compilation unit in order to make it easy for
 designers of
* alternative RSA implementations to use them in their code, as it is
* conceived that the functionality they provide will be necessary
* for most complete implementations.
*
* End-users of Mbed TLS not intending to re-implement the RSA functionality
* are not expected to get into the need of making use of these functions directly,
* but instead should be able to use the functions declared in rsa.h.
*

```
*  There are two classes of helper functions:
*  (1) Parameter-generating helpers. These are:
*      - mbedtls_rsa_deduce_primes
*      - mbedtls_rsa_deduce_private_exponent
*      - mbedtls_rsa_deduce_crt
*       Each of these functions takes a set of core RSA parameters
*       and generates some other, or CRT related parameters.
*  (2) Parameter-checking helpers. These are:
*      - mbedtls_rsa_validate_params
*      - mbedtls_rsa_validate_crt
*      They take a set of core or CRT related RSA parameters
*      and check their validity.
*
*/
```

Found
in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/rsa_internal.h
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*
*  This file is part of mbed TLS (https://tls.mbed.org)
*/
```

Found in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/pk.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/config.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/md_internal.h
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```
/*
*  Multi-precision integer library
*
```

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```

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* /mbedtls-2-27-tar-gz/mbedtls-2.27/bignum.c
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```
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* /mbedtls-2-27-tar-gz/mbedtls-2.27/rsa.c
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```
/**
* \file md.c
*
* \brief Generic message digest wrapper for mbed TLS
*
```

```
* \author Adriaan de Jong <dejong@fox-it.com>
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*
*/
```

Found in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/md2.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/md4.h
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*
*  This file is part of Mbed TLS (https://tls.mbed.org)
*/
```

Found in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/sha1.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/sha256.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/rsa.h
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/platform.h
No license file was found, but licenses were detected in source scan.

```
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*/
/**
* \brief Combines a high-level and low-level error code together.
*
*       Wrapper macro for mbedtls_error_add(). See that function for
*       more details.
*/
```

Found in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/mbedtls/error.h
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```
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*/
```

Found in path(s):
* /mbedtls-2-27-tar-gz/mbedtls-2.27/rsa_internal.c

1.497 libnsl 2.21

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1.499 wide-dhcpv6 1.0.0

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1.500 libxml2 2.10.4

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1.501 pcre2 10.42

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1.502 openjdk 11.0.12

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The Unicode Standard, Unicode Character Database, Version 10.0.0

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---
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include/GL/glxext.h
include/GL/wglxext.h :

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*/

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 *
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 *
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 *
 */

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1.506 libnl3 3.200

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making modifications to it. For a library, complete source code means

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

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

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2 above provided that you accompany
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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
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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
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directing the user to the copy of
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@enumerate a
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
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library already present on the user's computer system, rather than
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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
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@item
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@end enumerate

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which the executable runs, unless that component itself accompanies the
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@page
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Ty Coon, President of Vice
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Expresso

TDD framework for [nodejs](http://nodejs.org).

Features

- light-weight
- intuitive async support
- intuitive test runner executable
- test coverage support and reporting
- uses the _assert_ module
- `assert.eql()` alias of `assert.deepEqual()`
- `assert.response()` http response utility
- `assert.includes()`
- `assert.type()`
- `assert.isNull()`
- `assert.isUndefined()`
- `assert.isNotNull()`
- `assert.isDefined()`
- `assert.match()`
- `assert.length()`

Installation

To install both expresso _and_ node-jscoverage run:

```
$ make install
```

To install expresso alone (no build required) run:

```
$ make install-expresso
```

Install via npm:

```
$ npm install expresso
```

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What's Mongoose?

Mongoose is a [MongoDB](http://www.mongodb.org/) object modeling tool designed to work in an asynchronous environment.

Defining a model is as easy as:

```
  var Comment = new Schema({
      title     : String
    , body      : String
    , date      : Date
  });

  var BlogPost = new Schema({
      author    : ObjectId
    , title     : String
    , body      : String
    , buf       : Buffer
    , date      : Date
    , comments  : [Comment]
    , meta      : {
        votes : Number
      , favs  : Number
    }
  });
```

```
  var Post = mongoose.model('BlogPost', BlogPost);
```

Documentation

mongoosejs.com

Installation

The recommended way is through the excellent [NPM](http://www.npmjs.org/):

```
  $ npm install mongoose
```

Otherwise, you can check it in your repository and then expose it:

```
  $ git clone git://github.com/LearnBoost/mongoose.git
node_modules/mongoose/
```

And install dependency modules written on `package.json`.

Then you can `require` it:

```
  require('mongoose')
```

Connecting to MongoDB

First, we need to define a connection. If your app uses only one database, you should use `mongose.connect`. If you need to create additional connections, use `mongoose.createConnection`.

Both `connect` and `createConnection` take a `mongodb://` URI, or the parameters `host, database, port, options`.

```
  var mongoose = require('mongoose');

  mongoose.connect('mongodb://localhost/my_database');
```

Once connected, the `open` event is fired on the `Connection` instance. If you're using `mongoose.connect`, the `Connection` is `mongoose.connection`. Otherwise, `mongoose.createConnection` return value is a `Connection`.

Important! Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

##
 Defining a Model

Models are defined through the `Schema` interface.

```
  var Schema = mongoose.Schema
    , ObjectId = Schema.ObjectId;
```

```
  var BlogPost = new Schema({
     author    : ObjectId
    , title     : String
    , body      : String
    , date      : Date
  });
```

Aside from defining the structure of your documents and the types of data you're storing, a Schema handles the definition of:

* [Validators](http://mongoosejs.com/docs/validation.html) (async and sync)
* [Defaults](http://mongoosejs.com/docs/api.html#schematype_SchemaType-default)
* [Getters](http://mongoosejs.com/docs/api.html#schematype_SchemaType-get)
* [Setters](http://mongoosejs.com/docs/api.html#schematype_SchemaType-set)
* [Indexes](http://mongoosejs.com/docs/guide.html#indexes)
* [Middleware](http://mongoosejs.com/docs/middleware.html)
* [Methods](http://mongoosejs.com/docs/guide.html#methods) definition
* [Statics](http://mongoosejs.com/docs/guide.html#statics) definition
* [Plugins](http://mongoosejs.com/docs/plugins.html)
*
 [psuedo-JOINs](http://mongoosejs.com/docs/populate.html)

The following example shows some of these features:

```
  var Comment = new Schema({
     name  :  { type: String, default: 'hahaha' }
    , age   :  { type: Number, min: 18, index: true }
    , bio   :  { type: String, match: /[a-z]/ }
    , date  :  { type: Date, default: Date.now }
    , buff  :  Buffer
  });

  // a setter
  Comment.path('name').set(function (v) {
    return capitalize(v);
  });

  // middleware
  Comment.pre('save', function (next) {
    notify(this.get('email'));
    next();
  });
```

Take a look at the example in `examples/schema.js` for an end-to-end example of a typical setup.

Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same

function

```
  var myModel = mongoose.model('ModelName');
```

Or just do it all at once

```
  var MyModel = mongoose.model('ModelName', mySchema);
```

We
 can then instantiate it, and save it:

```
  var instance = new MyModel();
  instance.my.key = 'hello';
  instance.save(function (err) {
    //
  });
```

Or we can find documents from the same collection

```
  MyModel.find({}, function (err, docs) {
    // docs.forEach
  });
```

You can also `findOne`, `findById`, `update`, etc. For more details check out [this
link](http://mongoosejs.com/docs/queries.html).

Important! If you opened a separate connection using `mongoose.createConnection()` but attempt to access the model through `mongoose.model('ModelName')` it will not work as expected since it is not hooked up to an active db connection. In this case access your model through the connection you created:

```
  var conn = mongoose.createConnection('your connection string');
  var MyModel = conn.model('ModelName', schema);
  var m = new MyModel;
  m.save() // works

  vs

  var conn = mongoose.createConnection('your connection string');
  var MyModel = mongoose.model('ModelName',
schema);
  var m = new MyModel;
  m.save() // does not work b/c the default connection object was never connected
```

Embedded Documents

In the first example snippet, we defined a key in the Schema that looks like:

```
  comments: [Comments]
```

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

```
  // retrieve my model
  var BlogPost = mongoose.model('BlogPost');

  // create a blog post
  var post = new BlogPost();

  // create a comment
  post.comments.push({ title: 'My comment' });

  post.save(function (err) {
    if (!err) console.log('Success!');
  });
```

The same goes for removing them:

```
  BlogPost.findById(myId, function (err, post) {
    if (!err) {
      post.comments[0].remove();
      post.save(function (err) {
        // do something
      });
    }
  });
```

Embedded documents enjoy all the same features as your models. Defaults, validators, middleware. Whenever an error
occurs, it's bubbled to the `save()` error callback, so error handling is a snap!

Mongoose interacts with your embedded documents in arrays _atomically_, out of the box.

Middleware

Middleware is one of the most exciting features about Mongoose. Middleware takes away all the pain of nested callbacks.

Middleware are defined at the Schema level and are applied for the methods `init` (when a document is initialized with data from MongoDB), `save` (when a document or embedded document is saved).

There's two types of middleware:

- Serial
Serial middleware are defined like:

```
      .pre(method, function (next, methodArg1, methodArg2, ...) {
        // ...
```

```
    })
```

They're executed one after the other, when each middleware calls `next`.

You can also intercept the `method`'s incoming arguments via your middleware -- notice `methodArg1`, `methodArg2`, etc in the `pre` definition above. See section "Intercepting and mutating method arguments" below.

- Parallel
Parallel
middleware offer more fine-grained flow control, and are defined like:

```
    .pre(method, true, function (next, done, methodArg1, methodArg2) {
      // ...
    })
```

Parallel middleware can `next()` immediately, but the final argument will be called when all the parallel middleware have called `done()`.

Error handling

If any middleware calls `next` or `done` with an `Error` instance, the flow is interrupted, and the error is passed to the function passed as an argument.

For example:

```
  schema.pre('save', function (next) {
    // something goes wrong
    next(new Error('something went wrong'));
  });

  // later...

  myModel.save(function (err) {
    // err can come from a middleware
  });
```

Intercepting and mutating method arguments

You can intercept method arguments via middleware.

For example, this would allow you to broadcast changes about your Documents every time someone `set`s a path in your Document to a new value:

```
  schema.pre('set',
 function (next, path, val, typel) {
    // `this` is the current Document
    this.emit('set', path, val);
```

```
    // Pass control to the next pre
    next();
  });
```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```
  .pre(method, function firstPre (next, methodArg1, methodArg2) {
    // Mutate methodArg1
    next("altered-" + methodArg1.toString(), methodArg2);
  })

  // pre declaration is chainable
  .pre(method, function secondPre (next, methodArg1, methodArg2) {
    console.log(methodArg1);
    // => 'altered-originalValOfMethodArg1'

    console.log(methodArg2);
    // => 'originalValOfMethodArg2'

    // Passing no arguments to `next` automatically passes along the current argument values
    // i.e., the following `next()` is equivalent to `next(methodArg1, methodArg2)`
    // and also equivalent to, with the
 example method arg
    // values, `next('altered-originalValOfMethodArg1', 'originalValOfMethodArg2')`
    next();
  })
```

Schema gotcha

`type`, when used in a schema has special meaning within Mongoose. If your schema requires using `type` as a nested property you must use object notation:

```
  new Schema({
      broken: { type: Boolean }
    , asset : {
        name: String
      , type: String // uh oh, it broke. asset will be interpreted as String
      }
  });

  new Schema({
      works: { type: Boolean }
    , asset : {
        name: String
      , type: { type: String } // works. asset is an object with a type property
      }
```

```
});
```

API docs

You can find the [Dox](http://github.com/visionmedia/dox) generated API docs
[here](http://mongoosejs.com/docs/api.html).

Getting support

- Google Groups [mailing list](http://groups.google.com/group/mongoose-orm)
- (irc) #mongoosejs on freenode
- reporting [issues](https://github.com/learnboost/mongoose/issues/)
-
 [10gen](http://www.mongodb.org/display/DOCS/Technical+Support)

Driver access

The driver being used defaults to [node-mongodb-native](https://github.com/mongodb/node-mongodb-native) and is directly accessible through `YourModel.collection`. **Note**: using the driver directly bypasses all Mongoose power-tools like validation, getters, setters, hooks, etc.

Mongoose Plugins

Take a peek at the [plugins search site](http://plugins.mongoosejs.com/) to see related modules from the community.

Contributing to Mongoose

Cloning the repository

```
git clone git://github.com/LearnBoost/mongoose.git
```

Guidelines

See [contributing](http://mongoosejs.com/docs/contributing.html).

Credits

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1.518 u-boot 2019.10

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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.

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sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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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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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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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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must be
distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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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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Version 3, 29 June 2007

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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

2.2 2.1.1 2001 PSF yes
2.1.2 2.1.1 2002 PSF yes
2.1.3
2.1.2 2002 PSF yes
2.2.1 2.2 2002 PSF yes
2.2.2 2.2.1 2002 PSF yes
2.2.3 2.2.2 2003 PSF yes
2.3 2.2.2 2002-2003 PSF yes
2.3.1 2.3 2002-2003 PSF yes
2.3.2 2.3.1 2002-2003 PSF yes
2.3.3 2.3.2 2002-2003 PSF yes
2.3.4 2.3.3 2004 PSF yes
2.3.5 2.3.4 2005 PSF yes
2.4 2.3 2004 PSF yes
2.4.1 2.4 2005 PSF yes
2.4.2 2.4.1 2005 PSF yes
2.4.3 2.4.2 2006 PSF yes
2.4.4 2.4.3 2006 PSF yes
2.5 2.4 2006 PSF yes
2.5.1 2.5 2007 PSF yes
2.5.2 2.5.1 2008 PSF yes
2.5.3 2.5.2 2008 PSF yes
2.6 2.5 2008 PSF yes
2.6.1 2.6 2008 PSF yes
2.6.2 2.6.1 2009 PSF yes
2.6.3 2.6.2 2009 PSF yes
2.6.4 2.6.3 2009 PSF yes
2.6.5 2.6.4 2010 PSF yes
3.0 2.6 2008 PSF yes
3.0.1 3.0 2009 PSF yes
3.1 3.0.1 2009 PSF yes
3.1.1 3.1 2009 PSF yes
3.1.2 3.1.1 2010 PSF yes
3.1.3 3.1.2 2010 PSF yes
3.1.4 3.1.3 2011 PSF yes
3.2 3.1 2011 PSF yes
3.2.1 3.2 2011
PSF yes
3.2.2 3.2.1 2011 PSF yes
3.2.3 3.2.2 2012 PSF yes
3.3.0 3.2 2012 PSF yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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in from the lib directory. The getopt_long code is under
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1.528 direct-fb 1.4

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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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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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1.530 libnss-nisplus 2.12.2

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1.531 mini-xml UNKNOWN_VERSION

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1.532 libnss-nisplus 2.17

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application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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root function must still compute square roots.)
@end enumerate

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

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
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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
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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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@item

As an exception to the Sections above, you may also combine or
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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
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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
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suitable mechanism is one that (1) uses at run time a copy of the
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and (2) will operate
properly with a modified version of the library, if the user installs
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@subheading END OF TERMS AND CONDITIONS

@page
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1.533 u-boot 2019.10

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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.

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

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

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

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

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

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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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1.534 selinux 3.3

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1.537 pcre 7.0

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
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1.538 qt 5.4.3

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1.539 alsa-utils 1.0.28

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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.

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

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You should have received a copy of the GNU Lesser General Public
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Also add information on how to contact you by electronic and paper mail.

You should
also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
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Version 2, June 1991

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Preamble

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freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to your programs, too.

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. 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.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

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

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a notice placed by the copyright holder saying it may be distributed
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refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
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the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
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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 Program or any portion
of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

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.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
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a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or

executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

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To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

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

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License,
or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
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  You should have received a copy of the GNU General Public License
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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  under certain conditions; type `show c' for details.

The hypothetical commands `show w'
 and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
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You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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1.541 libnss-nisplus 2.20

1.541.1 Available under license :

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

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
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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
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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
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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
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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 copy and distribute
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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.

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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.

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1.543 libusb-compat 0.1.8

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1.544 libdrm 2.4.39

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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
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```
*    Kevin E. Martin <martin@valinux.com>
*    Gareth Hughes <gareth@valinux.com>
*    Keith Whitwell <keith@tungstengraphics.com>
*/
```

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```
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* Joonyoung Shim <jy0922.shim@samsung.com>
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```

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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/intel/intel_bufmgr_gem.c
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/* xf86drmSL.c -- Skip list support
* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward skip list implementation.n
*
* FUTURE ENHANCEMENTS
*
* REFERENCES
*
* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to
* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.
*
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/xf86drmSL.c

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*    Inki Dae <inki.dae@samsung.com>
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/exynos/exynos_drmif.h
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* Authors:
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*
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```
/* xf86drmHash.c -- Small hash table support for integer -> integer mapping
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
* DESCRIPTION
*
* This file contains a straightforward implementation of a fixed-sized
* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for
* collision resolution.  There are two potentially interesting things
* about this implementation:
*
* 1) The table is power-of-two sized.  Prime sized tables are more
* traditional, but do not have a significant advantage over power-of-two
* sized table, especially when double hashing is not used for collision
* resolution.
*
* 2) The hash computation
 uses a table of random integers [Hanson97,
* pp. 39-41].
*
* FUTURE ENHANCEMENTS
*
```

* With a table size of 512, the current implementation is sufficient for a
* few hundred keys. Since this is well above the expected size of the
* tables for which this implementation was designed, the implementation of
* dynamic hash tables was postponed until the need arises. A common (and
* naive) approach to dynamic hash table implementation simply creates a
* new hash table when necessary, rehashes all the data into the new table,
* and destroys the old table. The approach in [Larson88] is superior in
* two ways: 1) only a portion of the table is expanded when needed,
* distributing the expansion cost over several insertions, and 2) portions
* of the table can be locked, enabling a scalable thread-safe
* implementation.
*
* REFERENCES
*
* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
 * Addison-Wesley, 1997.
*
* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:
* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.
*
* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April
* 1988, pp. 446-457.
*
*/

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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/xf86drmHash.c
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/tests/gem_basic.c
* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/intel/intel_bufmgr_priv.h
* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/tests/gem_mmap.c
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* DRM based mode setting test program
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/tests/modetest/buffers.c
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/include/drm/drm_fourcc.h
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/radeon/radeon_bo.h
* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/radeon/radeon_cs_gem.c
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/* dristat.c --
* Created: Mon Jan 15 05:05:07 2001 by faith@acm.org
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*
* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*
*/

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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/tests/dristat.c
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/include/drm/nouveau_drm.h
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/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
* Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
*
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* Authors: Rickard E. (Rik) Faith <faith@valinux.com>
*

```
* DESCRIPTION
*
* This file contains a simple, straightforward implementation of the Park
* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer
* multiplicative linear congruential generator (MLCG) with a period of
* 2^31-1.
*
* This implementation is intended to provide a reliable, portable PRNG
* that is suitable for testing a hash table implementation and for
* implementing skip lists.
*
* FUTURE ENHANCEMENTS
*
* If initial seeds are not selected randomly, two instances of the PRNG
* can be correlated.
  [Knuth81, pp. 32-33] describes a shuffling technique
* that can eliminate this problem.
*
* If PRNGs are used for simulation, the period of the current
* implementation may be too short.  [LE88] discusses methods of combining
* MLCGs to produce much longer periods, and suggests some alternative
* values for A and M.  [LE90 and Sch92] also provide information on
* long-period PRNGs.
*
* REFERENCES
*
* [Knuth81] Donald E. Knuth. The Art of Computer Programming.  Volume 2:
* Seminumerical Algorithms.  Reading, Massachusetts: Addison-Wesley, 1981.
*
* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators".  CACM 31(6), June 1988, pp. 742-774.
*
* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10,
* October 1990, pp. 85-97.
*
* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:
* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.
*
* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence
 Generator for 32-Bit
* CPUs".  Dr. Dobb's Journal 17(2), February 1992, pp. 34, 37-38, 40.
*
* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer.  In
* "Technical Correspondence: Remarks on Choosing and Implementing Random
* Number Generators". CACM 36(7), July 1993, pp. 105-110.
*
*/
```

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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/xf86drmRandom.c
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/include/drm/drm_sarea.h
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```
/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com
*
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*
* Authors:
*   Jeff Hartmann <jhartmann@valinux.com>
*   Keith Whitwell <keith@tungstengraphics.com>
*
* Rewritten by:
*   Gareth Hughes <gareth@valinux.com>
*/

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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/include/drm/mga_drm.h
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```
*
* Authors:
*    Gareth Hughes <gareth@valinux.com>
*    Frank C. Earl <fearl@airmail.net>
*    Leif Delgass <ldelgass@retinalburn.net>
*/
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* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/include/drm/mach64_drm.h
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AC_PREREQ([2.63])
AC_INIT([libdrm],
      [2.4.39],
      [https://bugs.freedesktop.org/enter_bug.cgi?product=DRI],
      [libdrm])

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])
AM_MAINTAINER_MODE([enable])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])
```

```
# Check for programs
AC_PROG_CC

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])


PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs)
AC_SUBST(PTHREADSTUBS_CFLAGS)
AC_SUBST(PTHREADSTUBS_LIBS)

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
        [AS_HELP_STRING([--enable-udev],
                [Enable support for using udev instead of mknod (default: disabled)])],
        [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE(libkms,
     AS_HELP_STRING([--disable-libkms],
     [Disable KMS mm abstraction library (default: auto)]),
     [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE(intel,
     AS_HELP_STRING([--disable-intel],
     [Enable support for intel's KMS API (default: auto)]),
     [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE(radeon,
     AS_HELP_STRING([--disable-radeon],
     [Enable support for radeon's KMS API (default: auto)]),
     [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE(nouveau,
     AS_HELP_STRING([--disable-nouveau],
     [Enable support for nouveau's KMS API (default: auto)]),
     [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE(vmwgfx-experimental-api,
     AS_HELP_STRING([--enable-vmwgfx-experimental-api],
     [Install vmwgfx's experimental kernel API header (default:
```

```
 disabled)]),
      [VMWGFX=$enableval], [VMWGFX=no])

AC_ARG_ENABLE(omap-experimental-api,
      AS_HELP_STRING([--enable-omap-experimental-api],
      [Enable support for OMAP's experimental API (default: disabled)]),
      [OMAP=$enableval], [OMAP=no])

AC_ARG_ENABLE(exynos-experimental-api,
      AS_HELP_STRING([--enable-exynos-experimental-api],
      [Enable support for EXYNOS's experimental API (default: disabled)]),
      [EXYNOS=$enableval], [EXYNOS=no])

dnl ---------------------------------------------------------------------------
dnl check compiler flags
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
 AC_MSG_CHECKING([whether $CC supports $1])

 libdrm_save_CFLAGS="$CFLAGS"
 CFLAGS="$CFLAGS $1"

 AC_COMPILE_IFELSE([ ], [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
 CFLAGS="$libdrm_save_CFLAGS"

 if test "x$libdrm_cc_flag" = "xyes"; then
   ifelse([$2], , :, [$2])
 else
   ifelse([$3], , :, [$3])
 fi
 AC_MSG_RESULT([$libdrm_cc_flag])
])

dnl We use clock_gettime to check
 for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
          [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
                  [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked.  So there's no need to do anything
dnl else.  If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)
```

```
MAYBE_WARN="-Wall -Wextra \
-Wsign-compare -Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-missing-field-initializers
 -Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline"

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
 unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
 echo
 WARN_CFLAGS=""

 # Some warning options are not supported by all versions of
 # gcc, so test all desired options against the current
 # compiler.
 #
 # Note that there are some order dependencies
 # here. Specifically, an option that disables a warning will
 # have no net effect if a later option then enables that
 # warnings, (perhaps implicitly). So we put some grouped
 # options (-Wall and -Wextra) up front and the -Wno options
 # last.

 for W in $MAYBE_WARN; do
  LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
 done

 libdrm_cv_warn_cflags=$WARN_CFLAGS
 libdrm_cv_warn_maybe=$MAYBE_WARN

 AC_MSG_CHECKING([which warning flags were supported])])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

if
 test "x$UDEV" = xyes; then
 AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
```

```
 case $host_os in
  linux*)  LIBKMS="yes" ;;
  *)  LIBKMS="no" ;;
 esac
fi

AM_CONDITIONAL(HAVE_LIBKMS, [test "x$LIBKMS" = xyes])

AM_CONDITIONAL(HAVE_VMWGFX, [test "x$VMWGFX" = xyes])
if test "x$VMWGFX" = xyes; then
 AC_DEFINE(HAVE_VMWGFX, 1, [Have vmwgfx kernel headers])
fi

AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" = xyes])
if test "x$NOUVEAU" = xyes; then
 AC_DEFINE(HAVE_NOUVEAU, 1, [Have nouveau (nvidia) support])
fi

AM_CONDITIONAL(HAVE_OMAP, [test "x$OMAP" = xyes])
if test "x$OMAP" = xyes; then
 AC_DEFINE(HAVE_OMAP, 1, [Have OMAP support])
fi

AM_CONDITIONAL(HAVE_EXYNOS, [test "x$EXYNOS" = xyes])
if test "x$EXYNOS" = xyes; then
 AC_DEFINE(HAVE_EXYNOS, 1, [Have EXYNOS support])
fi

PKG_CHECK_MODULES(CAIRO, cairo, [HAVE_CAIRO=yes], [HAVE_CAIRO=no])
if test "x$HAVE_CAIRO" = xyes; then
 AC_DEFINE(HAVE_CAIRO, 1, [Have cairo support])
fi
AM_CONDITIONAL(HAVE_CAIRO,
 [test "x$HAVE_CAIRO" = xyes])

# For enumerating devices in test case
PKG_CHECK_MODULES(LIBUDEV, libudev, [HAVE_LIBUDEV=yes], [HAVE_LIBUDEV=no])
if test "x$HAVE_LIBUDEV" = xyes; then
   AC_DEFINE(HAVE_LIBUDEV, 1, [Have libudev support])
fi
AM_CONDITIONAL(HAVE_LIBUDEV, [test "x$HAVE_LIBUDEV" = xyes])

if test "x$INTEL" != "xno" -o "x$RADEON" != "xno" -o "x$NOUVEAU" != "xno" -o "x$OMAP" != "xno"; then
   # Check for atomic intrinsics
   AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
   [
     drm_cv_atomic_primitives="none"
```

```
    AC_LINK_IFELSE([AC_LANG_PROGRAM([[
  int atomic_add(int i) { return __sync_fetch_and_add (&i, 1); }
  int atomic_cmpxchg(int i, int j, int k) { return __sync_val_compare_and_swap (&i, j, k); }
                                    ]],[[]])],
                    [drm_cv_atomic_primitives="Intel"],[])

    if test "x$drm_cv_atomic_primitives" = "xnone"; then
     AC_CHECK_HEADER([atomic_ops.h],
 drm_cv_atomic_primitives="libatomic-ops")
    fi

    # atomic functions defined in <atomic.h> & libc on Solaris
    if test "x$drm_cv_atomic_primitives" = "xnone"; then
     AC_CHECK_FUNC([atomic_cas_uint],
     drm_cv_atomic_primitives="Solaris")
    fi

  ])
  if test "x$drm_cv_atomic_primitives" = xIntel; then
    AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
      [Enable if your compiler supports the Intel __sync_* atomic primitives])
  fi
  if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
    AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
  fi

  if test "x$drm_cv_atomic_primitives" = "xnone"; then
        if test "x$INTEL" != "xauto"; then
              if test "x$INTEL" != "xno"; then
                  AC_MSG_ERROR([libdrm_intel depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing
 both of those, disable support for Intel GPUs by passing --disable-intel to ./configure])
              fi
        else
              AC_MSG_WARN([Disabling libdrm_intel. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
              INTEL=no
        fi
        if test "x$RADEON" != "xauto"; then
              if test "x$RADEON" != "xno"; then
                  AC_MSG_ERROR([libdrm_radeon depends upon atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those,
disable support for Radeon support by passing --disable-radeon to ./configure])
              fi
        else
              AC_MSG_WARN([Disabling libdrm_radeon. It depends on atomic operations, which were not found for
your compiler/cpu. Try compiling with -march=native,
```

```
 or install the libatomics-op-dev package.])
            RADEON=no
        fi
        if test "x$NOUVEAU" != "xauto"; then
            if test "x$NOUVEAU" != "xno"; then
                AC_MSG_ERROR([libdrm_nouveau depends upon atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable support for NVIDIA GPUs by passing --disable-nouveau to ./configure])
            fi
        else
            AC_MSG_WARN([Disabling libdrm_nouveau. It depends on atomic operations, which were not found for your compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.])
            NOUVEAU=no
        fi
  else
        if test "x$INTEL" != "xno"; then
            case $host_cpu in
                i?86|x86_64) INTEL=yes ;;
                *) INTEL=no ;;

  esac
        fi
        if test "x$RADEON" != "xno"; then
            RADEON=yes
        fi
        if test "x$NOUVEAU" != "xno"; then
            NOUVEAU=yes
        fi
   fi
fi

if test "x$INTEL" != "xno"; then
 PKG_CHECK_MODULES(PCIACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIACCESS_CFLAGS)
AC_SUBST(PCIACCESS_LIBS)

PKG_CHECK_MODULES(VALGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
if test "x$have_valgrind" = "xyes"; then
 AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])
AM_CONDITIONAL(HAVE_NOUVEAU, [test "x$NOUVEAU" != "xno"])
if test "x$RADEON" = xyes; then
 AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
fi
```

```
AC_ARG_WITH([kernel-source],
          [AS_HELP_STRING([--with-kernel-source],
            [specify path to linux kernel source])],
     [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
 Makefile
 libkms/Makefile
 libkms/libkms.pc
 intel/Makefile
 intel/libdrm_intel.pc
 radeon/Makefile
 radeon/libdrm_radeon.pc
 nouveau/Makefile
 nouveau/libdrm_nouveau.pc
 omap/Makefile
 omap/libdrm_omap.pc
 exynos/Makefile
 exynos/libdrm_exynos.pc
 tests/Makefile
 tests/modeprint/Makefile
 tests/modetest/Makefile
 tests/kmstest/Makefile
 tests/radeon/Makefile
 tests/vbltest/Makefile
 include/Makefile
 include/drm/Makefile
 libdrm.pc])
AC_OUTPUT

echo
 ""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo "  libkms         $LIBKMS"
echo "  Intel API      $INTEL"
echo "  vmwgfx API     $VMWGFX"
echo "  Radeon API     $RADEON"
echo "  Nouveau API    $NOUVEAU"
echo "  OMAP API       $OMAP"
echo "  EXYNOS API     $EXYNOS"
echo ""
```

Found in path(s):
* /libdrm-2-4-39-orig-tar-gz/libdrm-2.4.39/configure.ac

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1.545 mmc-utils 0.1

1.545.1 Available under license :

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/*
* FIPS 180-2 SHA-224/256/384/512 implementation
* Last update: 02/02/2007
* Issue date: 04/30/2005
*
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* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/3rdparty/hmac_sha/sha2.c
*
 /mmc-utils-0-1-tar-gz/mmc-utils-0.1/3rdparty/hmac_sha/sha2.h
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Found in path(s):
* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/mmc.h
* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/mmc_cmds.h
* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/mmc_cmds.c
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/*
* HMAC-SHA-224/256/384/512 implementation
* Last update: 06/15/2005
* Issue date: 06/15/2005
*
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* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/3rdparty/hmac_sha/hmac_sha2.h

*
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*
* (This code is based on btrfs-progs/btrfs.c.)
*/

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1.546 u-boot 2012.04

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1.547 free-type 2.13.1

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#
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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
```

src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
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1.550 libnss-nisplus 2.13

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

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

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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
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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 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
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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
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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
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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1.553 speexdsp 1.2

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1.554 lvm2 2.02.187

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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
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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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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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     include/dgiff.h
     interfaces/IDirectFBImageProvider/idirectfbimageprovider_dfiff.c
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     tools/dfbdump.c
     tools/dfbdumpinput.c
     tools/dfbfx.c
      tools/dfbg.c
     tools/dfbinfo.c
     tools/dfbinput.c
     tools/dfblayer.c
     tools/dfbmaster.c
     tools/dfbpenmount.c
     tools/dfbproxy.c
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tools/fddump.c
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tools/raw15toraw24.c
tools/raw16toraw24.c
tools/raw32toraw24.c
tools/swmdump.c
tools/voodooplay.c
tools/voodooplay_client.c
tools/voodooplay_server.c
wm/unique/stret_test.c
wm/unique/test_color.c
wm/unique/test_foo.c
wm/unique/uwmdump.c
lib/direct/flz.*
flux/*
examples/++dfb/dfbapp.cpp
examples/++dfb/dfbapp.h
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examples/++dfb/dfbimage.h
examples/++dfb/dfbplay.cpp
examples/++dfb/dfbshow.cpp
examples/++dfb/dfbswitch.cpp
examples/++dfb/simple.cpp
examples/++dfb/tests/images.cpp
examples/fusiondale/data_test.c
examples/fusiondale/fd_client.c
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Comment:

flux is taken from https://github.com/deniskropp/flux and is used to generate
some .cpp and .h files from .flux files.

Files: gfxdrivers/cle266/vidregs.h
gfxdrivers/radeon/r300_program.h
gfxdrivers/radeon/radeon_regs.h
gfxdrivers/unichrome/vidregs.h
gfxdrivers/unichrome/regs2d.h
gfxdrivers/cle266/regs2d.h
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gfxdrivers/nsc/include/gfx_type.h
gfxdrivers/nsc/include/nsc_galproto.h

gfxdrivers/nsc/include/pnl_defs.h
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1.559 radvd 2.17

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1.560 libbacktrace 1.0

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1.561 ntp 4.2.8p17

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http://www.cl.cam.ac.uk/~mr10/Bench/README

Please feel free to re-implement this benchmark in any language you
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Martin Richards
23 February 2007

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",

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  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
  <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
  <IlrtTestKind>BuildOnly</IlrtTestKind>
  <!-- Test unsupported outside of windows -->
  <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
  <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
  <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
  <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <ProjectReference
 Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

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

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By Sean Eron Anderson
seander@cs.stanford.edu

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.567 tcpdump 4.99.1

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```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
  {
    config_unset => 'HAVE_NET_IF_PFLOG_H',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
    output => 'heap-overflow-1.out',
    args   => '-v'
  },
];

1;
```

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1.569 util-linux 2.34.0

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5 7936 12799   4864 2.4M
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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"
```

```
 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@ WEV[B "1
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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.578 e2fsprogs 1.47.0

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+++ 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

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Comment:
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```
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When a "work that uses the Library" uses material from a header file

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

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

That's all there is to it!
#
This 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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```

1.579 gtest release-1.12.1

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1.581 libpng 1.2.44

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.583 e2fsprogs 1.42.9

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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

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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) $(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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Theodore Ts'o
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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>,
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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>.

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

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1.585 libsndfile 1.0.25

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"
```

```
 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
x   ?"U@,5  @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.591 e2fsprogs 1.46.2

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

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

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

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

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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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1.592 bluez 4.101

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1.598 e2fsprogs 1.45.6

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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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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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```
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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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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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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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1.599 libpng 1.6.25

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.600 e2fsprogs 1.41.14

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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)
*/
 /*
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+ trivial database library - standalone version

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-
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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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The hypothetical commands `show w' and `show c' should show the appropriate
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu)
before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Version 2, June 1991

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the Program is not required to print an announcement.)

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c) Accompany it
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
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Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
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mouse-clicks or menu items--whatever suits your program.

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The reason we have a separate public license for some libraries is that
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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
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4. You may copy and distribute the Library (or a portion or
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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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.

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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>.

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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 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)
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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1.601 jre 11.0.12u9

1.601.1 Available under license :

zlib v1.2.11

zlib License
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</pre>
The Unicode Standard, Unicode Character Database, Version 10.0.0

Unicode Character Database

```

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xwd v1.0.7

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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

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the work with the complete corresponding
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1.620 pam 0.84.2

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1.621 kmod V1

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freedreno, inc_common],
 c_args : [c_vis_args, no_override_init_args],
 cpp_args : [cpp_vis_args],
 dependencies : idep_nir_headers,
 build_by_default : false,
)
```

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The Unicode Standard, Unicode Character Database, Version 10.0.0

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OASIS PKCS #11 Cryptographic Token Interface v3.0

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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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include/GL/glxext.h
include/GL/wglxext.h :

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1.629 zlib 1.2.11

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1.630 zlib 1.2.3

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1.631 zlib 1.2.8

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1.632 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

1.633 zlib 1.2.1.1

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1.634 zlib 1.2.6

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1.635 zlib 1.3.1

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
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*/

1.636 boost 1.84.0

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1.637 ethtool 6.6

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1.638 libcap-ng 0.8.4

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/

```
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.647 curl 8.8.0

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1.648 libsodium 15.0.1.12800-9

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Found in path(s):
* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.h
* /multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c

1.650 zlib 1.3.1

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*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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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.

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1.661 libxkbcommon 1.7.0

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1.662 procps 3.3.15-14.el8

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inline
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1.663 nghttp2 1.63.0

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1.664 openssl 1.1.1za

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1.665 icu 60.2

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

```
## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
This package was debianized by Jay Berkenbilt <qjb@debian.org> on
August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on
Tue, 17 Mar 2015.

The original source was downloaded from
http://icu-project.org/download/latest_milestone.html

The main web site for ICU is
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@center Version 3, 29 June 2007

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@enumerate 0

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`show c' should show the appropriate
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Version 3.1, 31 March 2009

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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely

due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
 the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
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@c man begin SEEALSO
gfdl(7), fsf-funding(7).
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Ty Coon, President of Vice
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Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
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into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of
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Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

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in new free programs; and that you are informed that you can do these
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To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

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.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

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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 copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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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.

@item
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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 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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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@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

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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library 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.

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You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

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.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying
Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

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.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data
structure
layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

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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

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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.)

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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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b) Use a suitable shared library mechanism for linking with the
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rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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components (compiler, kernel, and so on) of the operating system on
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Version 3.1, 31 March 2009

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entirely represented in
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This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

 Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
 originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
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@page
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
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@item
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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.)
@end enumerate

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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
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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
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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.

@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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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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you must include the
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directing the user to the copy of this License. Also, you must do one
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@enumerate a
@item
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with the Library, with the complete machine-readable ``work that
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user can modify the Library and then relink to produce a modified
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@item
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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
@end smallexample

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Version 3, 29 June 2007

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Defining a subclass of a class defined by the Library is

deemed a mode
of using an interface provided by the Library.

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structure
layouts and accessors, or small macros, inline functions and templates

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

```
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */
```

```
#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"
```

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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1.670 nghttp2 v1.63.0

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1.671 kmod 33

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1.675 minizip-ng 4.0.1

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1.676 json-cpp 1.9.6

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1.677 devmem2 unknown

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1.678 mini-xml unknown

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/*
* "$Id: mxml-string.c 387 2009-04-18 17:05:52Z mike $"
*
* String functions for Mini-XML, a small XML-like file parsing library.
*
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```
*
* Contents:
*
*   _mxml_snprintf()  - Format a string.
*   _mxml_strdup()    - Duplicate a string.
*   _mxml_strdupf()   - Format and duplicate a string.
*   _mxml_vsnprintf() - Format a string into a fixed size buffer.
*   _mxml_vstrdupf()  -
 Format and duplicate a string.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-string.c
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```
/*
* "$Id: mxml-index.c 184 2005-01-29 07:21:44Z mike $"
*
* Index support code for Mini-XML, a small XML-like file parsing library.
*
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*
* Contents:
*
*   mxmlIndexDelete()   - Delete an index.
*   mxmlIndexEnum()     - Return the next node in the index.
*   mxmlIndexFind()     - Find the next matching node.
*   mxmlIndexNew()      - Create a new index.
*   mxmlIndexReset()
 - Reset the enumeration/find pointer in the index and
*                       return the first node in the index.
*   index_compare()     - Compare two nodes.
*   index_find()        - Compare a node with index values.
*   index_sort()        - Sort the nodes in the index...
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-index.c

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```
#
# "$Id: mxml.list.in 399 2009-05-17 17:20:51Z mike $"
#
# EPM software list file for Mini-XML, a small XML library.
#
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#

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$exec_prefix=@exec_prefix@
$bindir=@bindir@
$datarootdir=@datarootdir@
$docdir=@docdir@
$includedir=@includedir@
$libdir=@libdir@
$mandir=@mandir@
$srcdir=@srcdir@

$PICFLAG=@PICFLAG@

# Product information
%product mxml
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 Sweet
%vendor Michael Sweet
%license ${srcdir}/COPYING
%readme ${srcdir}/README
%version @VERSION@

%description <<EOF
Mini-XML is a small XML parsing library that you can use to read
XML and XML-like data files in your application without
requiring large non-standard libraries.  Mini-XML provides the
following functionality:
```

- Reading of UTF-8 and UTF-16 and writing of UTF-8 encoded
  XML files and strings.
- Data is stored in a linked-list tree structure, preserving
  the XML data hierarchy.
- Supports arbitrary element names, attributes, and
  attribute values with no preset limits, just available
  memory.
- Supports integer, real, opaque ("cdata"), and text data
  types in "leaf" nodes.
- Functions for creating and managing trees of data.
- "Find" and "walk" functions for easily locating and
  navigating trees of data.

Mini-XML doesn't do validation or other types of processing on
the data based upon schema files or other sources
 of definition
information, nor does it support character entities other than
those required by the XML specification.
EOF

Executables
f 0555 root sys ${bindir}/mxmldoc mxmldoc

Header files
f 0444 root sys ${includedir}/mxml.h mxml.h

Libraries
%if $PICFLAG
%system hpux
f 0555 root sys ${libdir}/libmxml.sl.1 libmxml.sl.1
l 0555 root sys ${libdir}/libmxml.sl libmxml.sl.1

%system darwin
f 0555 root sys ${libdir}/libmxml.1.dylib libmxml.1.dylib
l 0555 root sys ${libdir}/libmxml.dylib libmxml.1.dylib

%system freebsd irix linux netbsd openbsd solaris tru64
f 0555 root sys ${libdir}/libmxml.so.1.4 libmxml.so.1.4
l 0555 root sys ${libdir}/libmxml.so.1 libmxml.so.1.4
l 0555 root sys ${libdir}/libmxml.so libmxml.so.1.4

%system all
%endif

f 0444 root sys ${libdir}/libmxml.a libmxml.a

pkg-config info
f 0444 root sys $(libdir)/pkgconfig/mxml.pc mxml.pc

```
# Documentation
f 0444 root sys ${docdir}/README $srcdir/README
f 0444 root sys ${docdir}/COPYING $srcdir/COPYING
f 0444 root
 sys ${docdir}/CHANGES $srcdir/CHANGES
f 0444 root sys ${docdir}/mxml.html $srcdir/doc/mxml.html
f 0444 root sys ${docdir}/mxml.pdf $srcdir/doc/mxml.pdf

# Man pages
f 0444 root sys ${mandir}/man1/mxmldoc.1 $srcdir/mxmldoc.man
f 0444 root sys ${mandir}/man3/mxml.3 $srcdir/mxml.man

#
# End of "$Id: mxml.list.in 399 2009-05-17 17:20:51Z mike $".
#
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml.list.in
No license file was found, but licenses were detected in source scan.

```
/*
* "$Id: mxml-private.h 309 2007-09-21 04:46:02Z mike $"
*
* Private definitions for Mini-XML, a small XML-like file parsing library.
*
* Copyright 2007 by Michael Sweet.
*
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* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-private.h
No license file was found, but licenses were detected in source scan.

```
/*
* "$Id: mxmldoc.c 390 2009-05-05 13:38:00Z mike $"
*
* Documentation generator using Mini-XML, a small XML-like file parsing
* library.
```

```
*
* Copyright 2003-2009 by Michael Sweet.
*
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* modify it under the terms of the GNU Library General Public
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* version 2, or (at your option) any later version.
*
* This program 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 General Public License for more details.
*
* Contents:
*
*   main()             - Main entry for test program.
*   add_variable()     - Add a variable or argument.
*   find_public()      - Find a public function, type, etc.
*   get_comment_info()  - Get info from comment.
*
  get_text()         - Get the text for a node.
*   load_cb()          - Set the type of child nodes.
*   new_documentation() - Create a new documentation tree.
*   remove_directory()  - Remove a directory.
*   safe_strcpy()      - Copy a string allowing for overlapping strings.
*   scan_file()        - Scan a source file.
*   sort_node()        - Insert a node sorted into a tree.
*   update_comment()    - Update a comment node.
*   usage()            - Show program usage...
*   write_description() - Write the description text.
*   write_element()     - Write an element's text nodes.
*   write_file()       - Copy a file to the output.
*   write_function()    - Write documentation for a function.
*   write_html()       - Write HTML documentation.
*   write_html_head()   - Write the standard HTML header.
*   write_man()        - Write manpage documentation.
*   write_scu()        - Write a structure, class, or union.
*   write_string()      - Write a string, quoting
 HTML special chars as needed.
*   write_toc()        - Write a table-of-contents.
*   write_tokens()      - Write <Token> nodes for all APIs.
*   ws_cb()            - Whitespace callback for saving.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxmldoc.c
No license file was found, but licenses were detected in source scan.

```
/*
* "$Id: mxml-node.c 363 2008-10-26 18:28:05Z mike $"
*
* Node support code for Mini-XML, a small XML-like file parsing library.
*
* Copyright 2003-2007 by Michael Sweet.
*
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* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*
* Contents:
*
*   mxmlAdd()        - Add a node to a tree.
*   mxmlDelete()     - Delete a node and all of its children.
*   mxmlNewCDATA()   - Create a new CDATA node.
*   mxmlNewCustom()  - Create a new custom data node.
*   mxmlNewElement() -
 Create a new element node.
*   mxmlNewInteger() - Create a new integer node.
*   mxmlNewOpaque()  - Create a new opaque string.
*   mxmlNewReal()    - Create a new real number node.
*   mxmlNewText()    - Create a new text fragment node.
*   mxmlNewTextf()   - Create a new formatted text fragment node.
*   mxmlNewXML()     - Create a new XML document tree.
*   mxmlRelease()    - Release a node.
*   mxmlRemove()     - Remove a node from its parent.
*   mxmlRetain()     - Retain a node.
*   mxml_new()       - Create a new node.
*/

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-node.c
No license file was found, but licenses were detected in source scan.

#
# "$Id: mxml.list.in 399 2009-05-17 17:20:51Z mike $"
#
# EPM software list file for Mini-XML, a small XML library.
#
# Copyright 2003-2009 by Michael Sweet.
#
```

```
# This program 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, or (at your option) any later version.
#
# This program 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 General Public License for more details.
#

# Directories...
$prefix=/usr/local
$exec_prefix=/usr/local
$bindir=${exec_prefix}/bin
$datarootdir=${prefix}/share
$docdir=${datarootdir}/doc/mxml
$includedir=${prefix}/include
$libdir=${exec_prefix}/lib
$mandir=${datarootdir}/man
$srcdir=.

$PICFLAG=0

# Product information
%product
 mxml
%copyright 2003-2009 by Michael Sweet
%vendor Michael Sweet
%license ${srcdir}/COPYING
%readme ${srcdir}/README
%version 2.6

%description <<EOF
Mini-XML is a small XML parsing library that you can use to read
XML and XML-like data files in your application without
requiring large non-standard libraries.  Mini-XML provides the
following functionality:

  - Reading of UTF-8 and UTF-16 and writing of UTF-8 encoded
    XML files and strings.
  - Data is stored in a linked-list tree structure, preserving
    the XML data hierarchy.
  - Supports arbitrary element names, attributes, and
    attribute values with no preset limits, just available
    memory.
  - Supports integer, real, opaque ("cdata"), and text data
    types in "leaf" nodes.
```

- Functions for creating and managing trees of data.
- "Find" and "walk" functions for easily locating and
  navigating trees of data.

Mini-XML doesn't do validation or other types of processing on
the data based
 upon schema files or other sources of definition
information, nor does it support character entities other than
those required by the XML specification.
EOF

Executables
f 0555 root sys ${bindir}/mxmldoc mxmldoc

Header files
f 0444 root sys ${includedir}/mxml.h mxml.h

Libraries
%if $PICFLAG
%system hpux
f 0555 root sys ${libdir}/libmxml.sl.1 libmxml.sl.1
l 0555 root sys ${libdir}/libmxml.sl libmxml.sl.1

%system darwin
f 0555 root sys ${libdir}/libmxml.1.dylib libmxml.1.dylib
l 0555 root sys ${libdir}/libmxml.dylib libmxml.1.dylib

%system freebsd irix linux netbsd openbsd solaris tru64
f 0555 root sys ${libdir}/libmxml.so.1.4 libmxml.so.1.4
l 0555 root sys ${libdir}/libmxml.so.1 libmxml.so.1.4
l 0555 root sys ${libdir}/libmxml.so libmxml.so.1.4

%system all
%endif

f 0444 root sys ${libdir}/libmxml.a libmxml.a

pkg-config info
f 0444 root sys $(libdir)/pkgconfig/mxml.pc mxml.pc

Documentation
f 0444 root sys ${docdir}/README $srcdir/README
f 0444 root sys ${docdir}/COPYING
 $srcdir/COPYING
f 0444 root sys ${docdir}/CHANGES $srcdir/CHANGES
f 0444 root sys ${docdir}/mxml.html $srcdir/doc/mxml.html
f 0444 root sys ${docdir}/mxml.pdf $srcdir/doc/mxml.pdf

```
# Man pages
f 0444 root sys ${mandir}/man1/mxmldoc.1 $srcdir/mxmldoc.man
f 0444 root sys ${mandir}/man3/mxml.3 $srcdir/mxml.man

#
# End of "$Id: mxml.list.in 399 2009-05-17 17:20:51Z mike $".
#
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml.list
No license file was found, but licenses were detected in source scan.

```
/*
* "$Id: mxml-entity.c 385 2009-03-19 05:38:52Z mike $"
*
* Character entity support code for Mini-XML, a small XML-like
* file parsing library.
*
* Copyright 2003-2009 by Michael Sweet.
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* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*
* Contents:
*
*   mxmlEntityAddCallback()    - Add a callback to convert entities to
*                                Unicode.
*   mxmlEntityGetName()        - Get the name that corresponds to the
*
  character value.
*   mxmlEntityGetValue()       - Get the character corresponding to a named
*                                entity.
*   mxmlEntityRemoveCallback() - Remove a callback.
*   _mxml_entity_cb()          - Lookup standard (X)HTML entities.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-entity.c
No license file was found, but licenses were detected in source scan.

```
/*
```

* "$Id: mxml-set.c 270 2007-04-23 21:48:03Z mike $"
*
* Node set functions for Mini-XML, a small XML-like file parsing library.
*
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*
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* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* Contents:
*
*   mxmlSetCustom() - Set the data and destructor of a custom data node.
*   mxmlSetCDATA()   - Set the element name of a CDATA node.
*   mxmlSetElement() - Set the name of an element node.
*   mxmlSetInteger() - Set the value of an
 integer node.
*   mxmlSetOpaque() - Set the value of an opaque node.
*   mxmlSetReal()   - Set the value of a real number node.
*   mxmlSetText()   - Set the value of a text node.
*   mxmlSetTextf()   - Set the value of a text node to a formatted string.
*/

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-set.c
No license file was found, but licenses were detected in source scan.

/*
* "$Id: mxml-private.c 315 2007-11-22 18:01:52Z mike $"
*
* Private functions for Mini-XML, a small XML-like file parsing library.
*
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*
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* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

```
* GNU General Public License for more details.
*
* Contents:
*
*   mxml_error()      - Display an error message.
*   mxml_integer_cb() - Default callback for integer values.
*   mxml_opaque_cb()  - Default callback for opaque values.
*   mxml_real_cb()    - Default callback for real number values.
 *   _mxml_global()    - Get global data.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-private.c
No license file was found, but licenses were detected in source scan.

```
dnl
dnl "$Id: configure.in 387 2009-04-18 17:05:52Z mike $"
dnl
dnl Configuration script for Mini-XML, a small XML-like file parsing library.
dnl
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dnl modify it under the terms of the GNU Library General Public
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dnl MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
dnl GNU General Public License for more details.
dnl

dnl Specify a source file from the distribution...
AC_INIT(mxml.h)

dnl Set the name of the config header file...
AC_CONFIG_HEADER(config.h)

dnl Version number...
VERSION=2.6
AC_SUBST(VERSION)
AC_DEFINE_UNQUOTED(MXML_VERSION, "Mini-XML
 v$VERSION")

dnl Clear default debugging options and set normal optimization by
dnl default unless the user asks for debugging specifically.
CFLAGS="${CFLAGS:=}"
```

```
CXXFLAGS="${CXXFLAGS:=}"
LDFLAGS="${LDFLAGS:=}"
AC_SUBST(LDFLAGS)
OPTIM=""
AC_SUBST(OPTIM)

AC_ARG_WITH(ansi, [  --with-ansi            set full ANSI C mode, default=no],
 use_ansi="$withval",
 use_ansi="no")

AC_ARG_WITH(archflags, [  --with-archflags       set additional architecture flags, default=none],
 ARCHFLAGS="$withval",
 ARCHFLAGS="")
AC_SUBST(ARCHFLAGS)

AC_ARG_ENABLE(debug, [  --enable-debug          turn on debugging, default=no],
if eval "test x$enable_debug = xyes"; then
 OPTIM="-g"
fi)

AC_ARG_WITH(docdir, [  --with-docdir           set directory for documentation,
default=${prefix}/share/doc/mxml],
 docdir="$withval",
 docdir="NONE")

AC_SUBST(docdir)

AC_ARG_WITH(vsnprintf, [  --with-vsnprintf       use vsnprintf emulation functions, default=auto],
 use_vsnprintf="$withval",
 use_vsnprintf="no")

dnl
 Get the operating system and version number...
uname=`uname`
uversion=`uname -r | sed -e '1,$s/[[^0-9]]//g'`
if test x$uname = xIRIX64; then
 uname="IRIX"
fi

dnl Checks for programs...
AC_PROG_CC
AC_PROG_CXX
AC_PROG_INSTALL
if test "$INSTALL" = "$ac_install_sh"; then
 # Use full path to install-sh script...
 INSTALL="`pwd`/install-sh -c"
fi
AC_PROG_RANLIB
```

```
AC_PATH_PROG(AR,ar)
AC_PATH_PROG(CP,cp)
AC_PATH_PROG(LN,ln)
AC_PATH_PROG(MKDIR,mkdir)
AC_PATH_PROG(RM,rm)

dnl Flags for "ar" command...
case "$uname" in
	Darwin* | *BSD*)
		ARFLAGS="-rcv"
		;;
	*)
		ARFLAGS="crvs"
		;;
esac

AC_SUBST(ARFLAGS)

dnl Inline functions...
AC_C_INLINE

dnl Checks for string functions.
if test "x$use_ansi" != xyes; then
 AC_CHECK_FUNCS(strdup)
fi

if test "x$use_vsnprintf" != xyes; then
 AC_CHECK_FUNCS(snprintf vsnprintf)
fi

dnl Check for "long long" support...
AC_CACHE_CHECK(for long long int, ac_cv_c_long_long,
 [if test "$GCC" = yes;
 then
  ac_cv_c_long_long=yes
 else
  AC_TRY_COMPILE(,[long long int i;],
   ac_cv_c_long_long=yes,
   ac_cv_c_long_long=no)
 fi])

if test $ac_cv_c_long_long = yes; then
 AC_DEFINE(HAVE_LONG_LONG)
fi

dnl Threading support
AC_ARG_ENABLE(threads, [  --enable-threads        enable multi-threading support])
```

```
have_pthread=no
PTHREAD_FLAGS=""
PTHREAD_LIBS=""

if test "x$enable_threads" != xno; then
 AC_CHECK_HEADER(pthread.h, AC_DEFINE(HAVE_PTHREAD_H))

 if test x$ac_cv_header_pthread_h = xyes; then
  dnl Check various threading options for the platforms we support
  for flag in -lpthreads -lpthread -pthread; do
        AC_MSG_CHECKING([for pthread_create using $flag])
   SAVELIBS="$LIBS"
   LIBS="$flag $LIBS"
        AC_TRY_LINK([#include <pthread.h>],
    [pthread_create(0, 0, 0, 0);],
         have_pthread=yes)
        AC_MSG_RESULT([$have_pthread])
   LIBS="$SAVELIBS"

   if test $have_pthread = yes; then
    PTHREAD_FLAGS="-D_THREAD_SAFE -D_REENTRANT"
    PTHREAD_LIBS="$flag"

    #
  Solaris requires -D_POSIX_PTHREAD_SEMANTICS to
    # be POSIX-compliant... :(
    if test $uname = SunOS; then
     PTHREAD_FLAGS="$PTHREAD_FLAGS -D_POSIX_PTHREAD_SEMANTICS"
    fi
    break
   fi
  done
 fi
fi

AC_SUBST(PTHREAD_FLAGS)
AC_SUBST(PTHREAD_LIBS)

dnl Shared library support...
DSO="${DSO:=:}"
DSOFLAGS="${DSOFLAGS:=}"

AC_ARG_ENABLE(shared, [  --enable-shared         turn on shared libraries, default=no])

if test x$enable_shared = xyes; then
 AC_MSG_CHECKING(for shared library support)
 PICFLAG=1
```

```
case "$uname" in
 SunOS* | UNIX_S*)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.so.1.4"
  DSO="\$(CC)"
  DSOFLAGS="$DSOFLAGS -Wl,-h,libmxml.so.1 -G -R\$(libdir) \$(OPTIM)"
  LDFLAGS="$LDFLAGS -R\$(libdir)"
             ;;

 HP-UX*)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.sl.1"
  DSO="ld"
  DSOFLAGS="$DSOFLAGS -b -z +h libmxml.sl.1 +s +b \$(libdir)"
  LDFLAGS="$LDFLAGS -Wl,+s,+b,\$(libdir)"
  ;;

 IRIX)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.so.1.4"
  DSO="\$(CC)"
  DSOFLAGS="$DSOFLAGS
-Wl,-rpath,\$(libdir),-set_version,sgi1.0,-soname,libmxml.so.1 -shared \$(OPTIM)"
  ;;

 OSF1* | Linux | GNU)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.so.1.4"
  DSO="\$(CC)"
  DSOFLAGS="$DSOFLAGS -Wl,-soname,libmxml.so.1,-rpath,\$(libdir) -shared \$(OPTIM)"
                LDFLAGS="$LDFLAGS -Wl,-rpath,\$(libdir)"
  ;;

 *BSD*)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.so.1.4"
  DSO="\$(CC)"
  DSOFLAGS="$DSOFLAGS -Wl,-soname,libmxml.so.1,-R\$(libdir) -shared \$(OPTIM)"
  LDFLAGS="$LDFLAGS -Wl,-R\$(libdir)"
                ;;

 Darwin*)
  AC_MSG_RESULT(yes)
  LIBMXML="libmxml.1.dylib"
  DSO="\$(CC)"
  DSOFLAGS="$DSOFLAGS \$(RC_CFLAGS) -dynamiclib -lc"
  ;;
```

```
  *)
   AC_MSG_RESULT(no)
   AC_MSG_WARN(shared libraries not supported on this platform.)
   PICFLAG=0
   LIBMXML="libmxml.a"
   ;;
 esac
else
 PICFLAG=0
 LIBMXML="libmxml.a"
fi

AC_SUBST(DSO)
AC_SUBST(DSOFLAGS)
AC_SUBST(LIBMXML)
AC_SUBST(PICFLAG)

dnl Add -Wall for GCC...
if
 test -n "$GCC"; then
 CFLAGS="-Wall $CFLAGS"

 if test "x$OPTIM" = x; then
  OPTIM="-Os -g"
 fi

 if test "x$use_ansi" = xyes; then
  CFLAGS="-ansi -pedantic $CFLAGS"
 fi

 if test $PICFLAG = 1 -a $uname != AIX; then
     OPTIM="-fPIC $OPTIM"
 fi
else
 case $uname in
  HP-UX*)
   CFLAGS="-Ae $CFLAGS"

   if test "x$OPTIM" = x; then
    OPTIM="-O"
   fi

   OPTIM="+DAportable $OPTIM"

   if test $PICFLAG = 1; then
    OPTIM="+z $OPTIM"
   fi
   ;;
```

```
  UNIX_SVR* | SunOS*)
   if test "x$OPTIM" = x; then
    OPTIM="-O"
   fi

   if test $PICFLAG = 1; then
    OPTIM="-KPIC $OPTIM"
   fi
   ;;

  *)
   if test "x$OPTIM" = x; then
    OPTIM="-O"
   fi
   ;;
 esac
fi

dnl Fix "prefix" variable if it hasn't been specified...
if test "$prefix" = "NONE"; then
 prefix="/usr/local"
fi

dnl Fix "exec_prefix" variable if it hasn't been specified...
if test "$exec_prefix" = "NONE"; then
 exec_prefix="$prefix"
fi

dnl Fix "docdir" variable if it hasn't been specified...
if test "$docdir" = "NONE";
 then
 docdir="$datadir/doc/mxml"
fi

dnl Fix "mandir" variable if it hasn't been specified...
if test "$mandir" = "\${prefix}/man" -a "$prefix" = "/usr"; then
 case "$uname" in
        *BSD* | Darwin* | Linux*)
         # BSD, Darwin (MacOS X), and Linux
         mandir="/usr/share/man"
         ;;
        IRIX*)
         # SGI IRIX
         mandir="/usr/share/catman/u_man"
         ;;
        *)
         # All others
```

```
        mandir="/usr/man"
        ;;
 esac
fi

dnl pkg-config stuff...
if test "$includedir" != /usr/include; then
 PC_CFLAGS="-I$includedir"
else
 PC_CFLAGS=""
fi

if test "$libdir" != /usr/lib; then
 PC_LIBS="-L$libdir -lmxml"
else
 PC_LIBS="-lmxml"
fi

AC_SUBST(PC_CFLAGS)
AC_SUBST(PC_LIBS)

dnl Output the makefile, etc...
AC_OUTPUT(Makefile mxml.list mxml.pc)

dnl
dnl End of "$Id: configure.in 387 2009-04-18 17:05:52Z mike $".
dnl
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/configure.in
No license file was found, but licenses were detected in source scan.

```
/*
* "$Id: mxml-attr.c 308 2007-09-15 20:04:56Z mike $"
*
* Attribute support code for Mini-XML, a small XML-like file parsing library.
*
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*
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* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
```

*
* Contents:
*
*   mxmlElementDeleteAttr() - Delete an attribute.
*   mxmlElementGetAttr()   - Get an attribute.
*   mxmlElementSetAttr()   - Set an attribute.
*   mxmlElementSetAttrf()   - Set an attribute with a formatted value.
*   mxml_set_attr()
        - Set or add an attribute name/value pair.
*/

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-attr.c
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/*
* "$Id: mxml.h 385 2009-03-19 05:38:52Z mike $"
*
* Header file for Mini-XML, a small XML-like file parsing library.
*
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* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml.h
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/*
* "$Id: testmxml.c 381 2009-02-05 06:06:11Z mike $"
*
* Test program for Mini-XML, a small XML-like file parsing library.
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*
* Contents:
*
*   main()         - Main entry for test program.
*   sax_cb()       - SAX callback.
*   type_cb()      - XML data type callback for mxmlLoadFile()...
*   whitespace_cb() - Let the mxmlSaveFile() function know when to insert
*
            newlines and tabs...
*/
```

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* /libmxml-src-from-achuth-tgz/voip-app/libmxml/testmxml.c
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```
/*
* "$Id: mxml-search.c 297 2007-09-09 07:16:52Z mike $"
*
* Search/navigation functions for Mini-XML, a small XML-like file
* parsing library.
*
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*
* Contents:
*
*   mxmlFindElement() - Find the named element.
*   mxmlWalkNext()    - Walk to the next logical node in the tree.
*   mxmlWalkPrev()    - Walk to the previous logical node in the tree.
*/
```

Found in path(s):
* /libmxml-src-from-achuth-tgz/voip-app/libmxml/mxml-search.c

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* /libmxml-src-from-achuth-tgz/voip-app/libmxml/Makefile
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/*
* "$Id: config.h.in 387 2009-04-18 17:05:52Z mike $"
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* /libmxml-src-from-achuth-tgz/voip-app/libmxml/config.status.lineno
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/*
* "$Id: mxml-file.c 391 2009-05-17 05:20:52Z mike $"

```
*
* File loading code for Mini-XML, a small XML-like file parsing library.
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*
* Contents:
*
*   mxmlLoadFd()          - Load a file descriptor into an XML node tree.
*   mxmlLoadFile()        - Load a file into an XML node tree.
*   mxmlLoadString()      - Load a string into an XML node tree.
*   mxmlSaveAllocString()
  - Save an XML node tree to an allocated string.
*   mxmlSaveFd()          - Save an XML tree to a file descriptor.
*   mxmlSaveFile()        - Save an XML tree to a file.
*   mxmlSaveString()      - Save an XML node tree to a string.
*   mxmlSAXLoadFd()       - Load a file descriptor into an XML node tree
*                           using a SAX callback.
*   mxmlSAXLoadFile()     - Load a file into an XML node tree
*                           using a SAX callback.
*   mxmlSAXLoadString()   - Load a string into an XML node tree
*                           using a SAX callback.
*   mxmlSetCustomHandlers() - Set the handling functions for custom data.
*   mxmlSetErrorCallback()  - Set the error message callback.
*   mxmlSetWrapMargin()   - Set the the wrap margin when saving XML data.
*   mxml_add_char()       - Add a character to a buffer, expanding as needed.
*   mxml_fd_getc()        - Read a character from a file descriptor.
*   mxml_fd_putc()
      - Write a character to a file descriptor.
*   mxml_fd_read()        - Read a buffer of data from a file descriptor.
*   mxml_fd_write()       - Write a buffer of data to a file descriptor.
*   mxml_file_getc()      - Get a character from a file.
*   mxml_file_putc()      - Write a character to a file.
*   mxml_get_entity()     - Get the character corresponding to an entity...
*   mxml_load_data()      - Load data into an XML node tree.
*   mxml_parse_element()  - Parse an element for any attributes...
*   mxml_string_getc()    - Get a character from a string.
*   mxml_string_putc()    - Write a character to a string.
*   mxml_write_name()     - Write a name string.
```

```
*   mxml_write_node()       - Save an XML node to a file.
*   mxml_write_string()     - Write a string, escaping & and < as needed.
*   mxml_write_ws()         - Do whitespace callback...
*/
```

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1.679 lsof 4.99.4

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1.681 audit 3.1.5

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1.682 jre 11.0.24u14

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1.687 speexdsp 1.2rc1

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1.688 golang 1.24.1

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),

```
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
```

}
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1.692 slang 2.2.4

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1.693 kerberos 1.15.1-37.el7

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c

lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/libgss/g_rel_name.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
kprop/kproplog.c

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* Last update: 02/02/2007
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```
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*
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* /mmc-utils-0-1-tar-gz/mmc-utils-0.1/mmc.h
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```

1.696 python 3.7.7

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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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software.

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
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1.704 tpm2-tss-tcti 4.0.1

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1.705 xorg-randr 1.5.1-2.el7

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1.706 crda 3.18

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1.707 cairo 1.15.12-4.el7

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a) Accompany
the work with the complete corresponding
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1.708 axis2-adb-codegen 1.3

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1.709 bcpkix-fips 1.0.3

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-1-0-3-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.710 opensaml-saml-api 3.4.6

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```
 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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 Ty Coon, President of Vice
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(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various

enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation

that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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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
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Although the Lesser General Public License is Less protective of the

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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
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be optional: if the application does not supply it, the square
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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

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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 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.

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the major
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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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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.

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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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* /terracotta-utilities-tools-0-0-8-sources-jar/org/terracotta/utilities/io/CapturedPrintStream.java
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1.718 wsdl4j 1.5.1

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1.720 jetty-client 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

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1.722 core-aspects 1.2.21

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1.723 opensaml-xmlsec-impl 3.4.6

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/opensaml-xmlsec-impl-3-4-6-sources-jar/org/opensaml/xmlsec/signature/support/impl/provider/package-info.java
* /opensaml-xmlsec-impl-3-4-6-sources-jar/org/opensaml/xmlsec/signature/impl/PGPKeyPacketBuilder.java
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* java.sun.security.ssl

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are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.726 httpcomponents-client 4.5.3

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* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/META-
INF/maven/org.kohsuke.rngom/rngom/pom.xml
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/parse/xml/Messages.properties
* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/parse/Messages.properties
* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/binary/Messages.properties
* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/parse/compact/Messages.properties
* /rngom-201103-0-0-redhat-4-jar-zip/rngom-201103-0-0-redhat-4-jar/org/kohsuke/rngom/dt/builtin/Messages.properties

1.729 tiles-servlet 3.0.8

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1.730 xml-commons-resolver 1.2

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1.734 jackson 1.9.9

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Found in path(s):
* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/JsonParser.java

* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/util/ByteArrayBuilder.java
* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/JsonGenerator.java
* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/Base64Variant.java
*
/jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/JsonFactory.java
* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/Base64Variants.java
* /jackson-core-asl-1-9-9-sources-jar/org/codehaus/jackson/JsonStreamContext.java

1.735 tftp-hpa 5.2-22.el7

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* /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftpd/remap.h
* /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftpd/misc.c
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* ---------------------------------------------------------------------- */

Found in path(s):
* /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftpd/recvfrom.c
* /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftpd/recvfrom.h
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Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
```

```
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package
 provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*
```

%files
 server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

*
 Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>

- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
-
update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).

- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug
 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

*
 Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

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*
 /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftp/main.c
* /tftp-hpa-b9708e22014e03c9fa35ff7ced20e46194c39dc6-tar-gz/tftp/tftp.c

1.736 esapi 2.0.1

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* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
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```

1.737 xalan 2.7.0-3

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* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/output_html.properties
* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/XMLEntities.properties
* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xalan/res/XSLTInfo.properties
*
 /xalan-2-7-0-jar-1-zip/xalan-2-7-0-jar/org/apache/xml/serializer/Encodings.properties

1.738 axis 1.7.9

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by

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1.745 stax-ex 1.8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8
Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: http://stax-ex.java.net/
Implementation-Build-Id: ${scmBranch}-${buildNumber}, ${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
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l
Bundle-ManifestVersion: 2
Bundle-Name: Extended StAX API
Bundle-SymbolicName: org.jvnet.staxex.stax-ex
Bundle-Version: 1.8.0
Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activati
on,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;versio
n="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.
xml.stream,org.w3c.dom"
Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.n
amespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.
dom
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1.747 ksh 20120801-142.el7

1.747.1 Available under license :

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Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/treemove.sh
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12-07-25 pathprobe.c: fix read() loop to handle EINTR
12-06-28 vmalloc/malloc.c: use sbrk() unless VMALLOC_OPTIONS=mmap or asoinit(0,0,0)!=0 (workaround until

next malloc update)
12-06-28 aso/aso.c: asoinit(0,0,0): 0: no specific init, 1: app initialized
12-06-27 sfio/sfvprintf.c: allow { L* z* } aliases for I* -- posix will probably pick one
12-06-26 regex/regnexec.c: fix uninitialized variable reference
12-06-26 comp/setlocale.c: utf8_wctomb() now calls (the corrrect) wc2utf8()
12-06-25 string/chresc.c: accept \u[U+<hex>] and \u{U+<hex>}
12-06-24 regex/regcomp.c: mb [^...] must be marked "complicated"
12-06-20 port/astconf.c: increase DEBUG_astconf error debug levels (may leach into rt output)
12-06-18 sfio/_sfopen.c: add 'e' => O_CLOEXEC
12-06-18 features/fcntl.c: add #define O_CLOEXEC 0 if not defined
12-06-13 features/float: handle __mips c99 peculiarities
12-06-13 features/standards: handle __MACH__ posix peculiarities
12-06-08
sfio/sfclose.c,sfmode.c: sfclose() for sfopopen() stream returns sh-compatible $?
12-06-08 comp/strtold.c: fix header botch that missed ldexpl() prototype -- ouch
12-06-06 misc/proclib.h: partially undo <ast_standards.h> for leaked ancient bsd-isms
12-05-31 misc/proclib.h: <ast_standards.h> for linux undefined struct mmsghdr*
12-05-31 error.h: add ERROR_PIPE(errno) to handle EPIPE and ECONNRESET
12-05-31 Makefile: don't install $(INCLUDEDIR)/prototyped.h: src/cmd/INIT does it
12-05-31 regcomp.c: add (?V...) ~(V...) REG_REGEXP switch
12-05-28 regex: regoff_t in => ssize_t via api 20120528
12-05-21 features/asometh: split intrinsic and method tests so code only instantiated in aso.c
12-05-21 comp/strdup.c: use oldof() since mem overwritten by string copy
12-05-18 misc/stk.c: fix access of moved realloc() data
12-05-15 misc/optget.c: #? option with no value should have opt_info.num==0
12-05-11 misc/stk.c: fix memmove() read of 1 uninitialized byte
12-05-11 regex/regcoll.c:
avoid memcpy() to self
12-05-01 port/astconf.c: fix astconflist() to list standard minmax value if defined
12-04-26 sfio/sftmp.c: fix memory leak due to inadvertent SF_STATIC copy
12-04-26 sfio/sfwrite.c: fix subtle memory leak (with Vmlast or Vmpool or freeBSD malloc)
12-04-26 vmalloc/vmbest.c: SIGSEGV overcommit check for __linux__ only
12-04-25 vmalloc: add _vmfd() for private close-on-exec fds
12-04-23 sfio_t.h: change getr to 32 bits to prepare for UTF-8 delimiters
12-04-23 features/signal.c: add SIGSTKFLT
12-04-17 regex/regcomp.c: fix (E:...) vs (E)... scoping
12-04-11 features/sys: add aix's _LARGE_FILE_API to the _LARGEFILE(64)?_SOURCE mix -- anyone else?
12-04-11 include/cmdarg.h,misc/cmdarg.c: (finally!) add a discipline with Cmdrun_f
12-03-28 vmalloc: int vs [s]size_t cleanup
12-03-27 sfio: fix #if logic that caused syntax errors (on 64 bit uwin)
12-03-10 misc/optget.c: HELP_index for "PLUGIN" too
12-02-29 include/shcmd.h: PLUGIN_VERSION 20111111 for cdt disc/meth change
12-02-29
comp/spawnveg.c: fix sigcritical() to include waitpid() for internal child
12-02-29 malloc.c: make __malloc_hook initialization thread safe
12-02-24 comp/iconv.c: fix winix UTF-8 vs UCS-2 over-conversion
12-02-24 astsa/*.h: clean up header guards
12-02-24 astsa/astsa.omk: clean up standalone old make makefile interactions

12-02-21 misc/cmdarg.c: fix bug that set argv[0]
12-02-10 sfvprintf.c: fix 1 byte too long buffer access
12-02-07 malloc.c/features/vmalloc: add gnu __malloc_hook tests
12-02-06 vmmopen.c: fix ALIGN vs sys/param.h macro conflict
12-02-02 astlicense.c: add license.component for component-specific licenses
12-01-31 spawnveg.c: fix transient bug that made invalid setpgid() call
12-01-27 pathpath.c: fix buffer size math when internal allocation requested
12-01-24 malloc.c: fix _vmkeep() bug that did not return previous state
12-01-23 malloc.c: add VMALLOC_OPTIONS=break to try sbrk() block allocator first
12-01-21 astlicense.c: option style only overrides default
license.type
12-01-18 malloc.c: disable multiple regions for tracing or !vmbest or ASO_SIGNAL
12-01-12 sfpkrd.c: add __sun I_PEEK+rsh runtime workaround
12-01-10 shcmd.h: void* => Shbltin_t*
12-01-10 tmxdate.c: handle { n>=1000 } TM_PARTS
11-12-21 plug up some memory links -- thanks mhlavink
11-12-21 vmprivate.c: enclose VM_NONMEM exception in CLRLOCK(vm,0) ... SETLOCK(vm,0)
11-12-13 aso: in -lposix for uwin, not -last -- just like vmalloc
11-12-13 sfpoll.c: all streams SF_IOINTR => don't ignore EINTR
11-12-13 sfdcslow.c: set SF_IOINTR
11-12-09 malloc.c: add _vmkeep() for setlocale() intercept _SYS_setlocale_free_OK
11-12-04 sfio: _Sfmaxr=0 (unlimited) by default; use ulimit -M|-d or SFIO_OPTIONS
11-12-01 aso: sync to new api
11-11-11 optget.c: move .TH to the top for --nroff to get our macros first
11-11-11 aso,cdt,vmalloc: resync with kpv
11-11-11 cdt: preserve bits and Dt_link_t for CDT_VERSION < 20111111
11-10-24 sfvprintf.c: %.-ns truncate from left to n chars
11-10-21 sfvprintf.c:
fix %0s (no width) core dump
11-10-10 aso: add _WIN32 support
11-09-26 vmalloc: sync with kpv
11-08-29 features/{dirent,wchar,wctype}: eliminate #include with no header
11-08-25 #pragma prototyped tweaks -- sun4 is dead, long live sun4
11-08-25 ftwalk.c: FTS_SLNONE => FTW_SL
11-08-11 features/wchar: fix #include _nxt_wchar for K&R C
11-08-04 optget.c: tweak --html rendering
11-07-24 mime.c: add %(default)[st] default if arg == ""
11-07-21 setlocale.c: fix debug locale to treat "<<" as two single byte chars
11-06-14 spawnveg.c: pgid -1: new session -2: setpgrp()&&tcsetpgid()
11-06-14 pathprog.c: add darwin _NSGetExecutablePath
11-05-14 features/common,features/align.c: { _X86_ _X64_ } conditionals for generic uwin
11-05-13 tm/tminit.c: tweak tzname[] prototype
11-05-09 astlicense.c: add ". file" parent-relative include and depth 4 input stack
11-05-05 cmdarg: update to cmdopen_20110505 api
11-05-03 sfio/sfclose.c: make sure close() errors propagate to sfclose() return value
11-04-20 port/astlicense.c:
add { id name } keys
11-04-15 fmtdev.c: fix to work for non-{blk,chr} special

11-04-12 stk: change size args to size_t and stseek() offset to ssize_t
11-04-12 sfio: sync with kpv to optimize large SF_STRING sfputr() buffer allocation
11-03-28 misc/fts.c: fix FTS_SLNONE logic to set it when it should!
11-03-17 misc/stk.c: fixed bug that could delete an active stack frame
11-03-10 sfio/sfvprintf.c: add %0<width>s to preserve <width> trailing chars in string arg
11-03-09 misc/magic.c: add %d...%s where if %d==1 then %s=="" else %s=="s"
11-03-09 misc/magic.tab: add windows ico
11-02-08 misc/stk.c: change STK_FSIZE to (1024*sizeof(char*)) for 64 bit normalization
11-02-02 sfio/sfmode.c: don't call sfsetbuf() on unbuffered stream to make it unbuffered
11-02-02 features/wchar: handle hp.ia64 va_list interactions
11-02-02 comp/omitted.c: fix mismatch between stat() vs _stat()
11-01-31 std/wctype,features/wctype: add to handle <wchar.h> interactions
11-01-28 add -lw for ancient
sunos
11-01-28 include/magic.h,misc/magic.c: add MAGIC_ALL
11-01-27 tm/tmxfmt.c,tmpoff.c: %_z for SHH:MM
11-01-25 features/wchar: change <wctype.h> <wchar.h> ordering
10-12-24 sfstrtof.h: fix thousand grouping bug that did not check last group
10-12-21 pathkey.c: add win32 { /32 /64 } preroot to hash
10-12-09 pathprog.c: handle intermediate path != '* and fix invalid pathpath() call
10-12-01 astconf.c: fix look.standard undefined variable reference
10-12-01 sfset.c: SF_LINE|SF_WCWIDTH => no need for sfsetbuf() to call isatty()
10-12-01 sfsetbuf.c: cache /dev/null <dev,ino> to cut down /dev/null stat()'s
10-12-01 optget.c: delay dictionary initialization until needed
10-11-30 malloc.c: drop { VMDEBUG VMETHOD VMPROFILE VMTRACE } env checks
10-11-30 port/astconf.c: eliminate esaccess() calls for OP_universe checks
10-11-24 regcomp.c: [[=]=]] must at least match itself in non-C locales
10-11-23 glob.h,glob.c: add GLOB_GROUP => REG_SHELL_GROUP
10-11-20 glob.c: handle mode switches across
/
10-11-19 regcomp.c: REG_SHELL => REG_CLASS_ESCAPE
10-11-16 vmalloc.h: add VMFL tracing to vmstrdup()
10-11-16 ast.h: simplify VMDEBUG _BLD_DEBUG and VMFL logic
10-11-12 tm/tmlocale.c: ast TM_* extensions default to C locale
10-11-10 regex/regnexec.c,vmalloc/vmstat.c: eliminate strict-aliasing puns
10-10-20 misc/translate.c: change debug translation to drop " in (a,b,c,"d")
10-10-10 misc/glob.c: drop ancient D_FILENO(d)!=0 test and trust readdir()
10-10-06 misc/translate.c: fix "debug" locale logic
10-10-04 misc/magic.c: fix magic() skip check to honor the continuation
10-10-04 regex/regcoll.c: add wchar_t* args to regcollate(), drop ucs name lookup
10-09-28 comp/setlocale.c: add utf8_wctomb()
10-09-28 string/chresc.c,regex/regcoll.c: fix \S[.X.] (\C[.X.] never worked!)
10-09-24 string/chresc.c: \Cc for control c, \S[.X.] for collating symbol X
10-09-24 string/chresc.c: { \cc \e } deprecated
10-09-22 regex/regcomp.c: fix off-by-one collation class allocation bug
10-09-20 regex/regclass.c:
fix CTYPES off-by-one bug
10-09-14 comp/conf.sh: const int conf_elements, prefix_elements;

10-09-08 add features/sizeof => ast_sizeof.h
10-08-31 comp/getopt[l].c: export functions for dlls
10-08-25 port/lc.c: add features/locale check for canonical UTF-8 spelling
10-08-20 include/ast.h: add export plugin_version() prototype
10-08-20 comp/conf.tab: add SF_BUFSIZE
10-08-11 misc/conformance.c: conformance(0,0) => "standard"
10-08-11 misc/conformance.c: check ast_env_serial for dynamic astconf() changes
10-08-11 port/lcgen.c: remember to fudge Table_t.count for synthesized entries
10-08-04 include/ast.h,comp/setlocale.c: add { debug C.UTF-8 } mbalpha() mbwidth()
10-08-02 misc/translate.c: add NLSPATH message cache check
10-07-29 string/fmtint.c: fix nasty bug that rendered "1000" as "1"
10-07-27 setlocale,lsgen,localeconv: handle C vs C_EU decimal thousands sep
10-07-26 misc/optget.c: fix interaction with nested plugin/builtin calls
10-06-29 string/strtoi.h: strton() multiplier 1 =>
power of two suffix
10-06-28 features/wchar: handle systems that require __va_list => va_list
10-06-28 comp/conf.tab: another PID_MAX tweak -- default to 99999 for most
10-06-28 port/astconf.c: lone "CONFORMANCE = standard" => all defaults standard
10-06-25 misc/optget.c: avoid sfprints() call during initialization
10-06-01 features/api, ast_api.h: formalized forwards/backwards api compatibility
10-06-01 _AST_API=20100601: add size_t args for all path*() output buffers
10-06-01 comp/setlocale.c: handle C.UTF-8 test locale
10-06-01 include/mc.h: add size_t to mcfind() for result buffer (internal api)
10-06-01 use strlcpy() instead of strncpy()
10-05-28 include/ast_version.h: add AST_PLUGIN_VERSION for dllplugin()
10-05-28 include/shcmd.h: add SH_PLUGIN_VERSION for dllplugin()
10-05-28 misc/conformance.c: add conformance(3)
10-05-28 misc/optget.c: add [(id1|id2)...] conformance("id1|id2",0) conditionals
10-05-25 include/sfhdr.h: adjust SF_NMAP according to _ptr_bits
10-05-25 include/shcmd.h:
add sh_builtin() macro for lib_init() table initialization
10-05-21 misc/optget.c: --html \bfoo::bar([[:digit:]][[:upper:]]*) => foo-bar.html
10-05-15 include/proc.h,misc/procopen.c: add PROC_ORPHAN
10-05-09 misc/optget.c: add --???MAN[section] --???SECTION
10-05-07 sfio,stdio: fix all snprintf() variants to handle buf==0 and/or n==0
10-05-04 string/fmtesc.c: add mb iswsoace() and iswcntrl() quoting checks
10-05-03 fix LC_MESSAGES catalog lookup bugs, check for $set==3, accept $set==1
10-04-30 string/chresc.c: add chrexp() for FMT_EXP_*
10-04-30 string/stresc.c: add strexp() for FMT_EXP_*
10-04-30 string/chresc.c: fix \uXXXXY bug that consumed Y
10-04-22 misc/optget.c: check for html entities in <A name="...">
10-04-22 misc/getcwd.c: add features/syscall check for SYSGETCWD() { linux solaris }
10-04-22 string/stresc.c: wide chars absent locale guidance default to UTF-8
10-04-12 port/mnt.c: favor bsd getfsstat() over getmntinfo()
10-04-11 string/strtoi.h: k (1000) and ki (1024) now
differentiated
10-04-10 misc/recstr.c: fix 'd[delimiter]' parse
10-04-08 include/vmalloc.h,vmalloc/vmstat.c: add Vmstat_t.mode region mode bits

10-04-05 misc/fts.c: drop 1997-01-07 fts_open()=0 is one file and stat() fails
10-04-05 misc/optget.c,optlib.h: add Optpass_t.release for --nroff .TH
10-04-02 misc/optget.c: fix $'[-n?\n...]' --version bug
10-04-02 regex/regcomp.c: ~(X) => REG_EXTENDED|REG_AUGMENTED, ~(PU) instead of ~(U)
10-03-24 misc/procopen.c: add PROC_FD_CTTY(fd)
10-03-24 path/pathtemp.c: fix pointer => int casts
10-03-15 regex/regcache.c: fix 1 byte buffer overflow (didn't count trailing \0)
10-03-08 features/tvlib: fix utimensat probe to include all macros/structs
10-03-07 features/lib: change stream_peek to test pipes only
10-03-07 string/strelapsed.c: fix next char return overrun
10-03-06 tm/tvtouch.c: use runtime fallback if utimensat() fails with ENOSYS
10-03-05 path/pathtemp.c: add pfx /seed for regression testing
10-03-04 vmalloc/vmwalk.c: add user supplied handle
arg
10-03-04 path/pathtemp.c: properly handle mktemp()-style *+(X) templates
10-03-03 include/ast_getopt.h: remove NULL guard - _AST_GETOPT_H now handles it
10-02-24 comp/getopt.h: fix ast_std.h interactions
10-02-24 vmalloc/malloc.c: empty { VMALLOC_OPTION VMDEBUG ... } => no debug!
10-02-02 string/base64.c: fix corner case output buffer overflow
10-02-02 features/fs: sys/mnttab.h requires stdio.h on some systems!!
10-02-01 misc/optget.c: uppercase --html heading -- doh
10-01-29 misc/optget.c: [+NAME?...] overrides error_info.id for >= STYLE_man
10-01-25 vmalloc/vmprivate.c: fix seg ptr initialization bug (24 years old!!)
10-01-20 misc/optget.c: handle nested {...} rendering
10-01-20 misc/state.c: add ast.version for runtime api version
10-01-20 port/astconf.c: "_AST_VERSION" now returns ast.version
10-01-20 include/ast_std.h: add ast.version for runtime api version
10-01-19 astlicense.c: add epl
10-01-01 vmalloc: VMALLOC_OPTIONS env var for all runtime options
10-01-01 include: change
some <ast.h> refs to less intrusive <ast_*.h>
10-01-01 setlocale.c,translate.c,fmterror.c: AST_LC_internal retains prev state
10-01-01 comp/setlocale.c: AST_LC_setenv defers to LC_ALL (for sh)
10-01-01 ast_std.h: add { AST_LC_internal AST_LC_setenv }
09-12-24 comp/setlocale.c: fix setlocale(LC_ALL,"") when already initialized
09-12-17 misc/optget.c: handle mixed solaris usage="x:f:(in)yo:(out)"
09-12-11 regex/regcomp.c: posix semantics for [z-a]
09-12-11 regex/regcomp.c: fix BRE/ERE ^^ logic
09-12-11 regex/regcomp.c: fix regcomb() for REG_LEFT|REG_RIGHT
09-12-11 regex/regcomp.c: bm complete=0 if REX_END
09-12-11 comp/sigflag.c: add with npt check in features/sig.sh
09-12-11 tm/tminit.c: fix _tzset_environ logic
09-12-09 tm/tmlocale.c: include "ast_nl_types.h" to pull nl_langinfo in!
09-12-04 features/options: add "opt map-libc" check
09-12-03 tm/tmxdate.c: fix 'next month final day' for dec -> jan
09-11-21 misc/magic.tab: add gimp XCF
09-11-20 vmalloc/vmtrace.c: add pid to assertion

disgnostics
09-11-11 regex.h,regcomp.c: add REG_CLASS_ESCAPE, \ inside [...] literal by default
09-11-03 regex/regcache.c: change to variable length pattern strings
09-10-28 include/error.h: fix ERROR_translate() arg parens
09-10-26 port/lcgen.c,comp/setlocale.c: handle LANG init after LC_* already defined
09-10-05 _sfopen.c: add but ignore 'F' flags for stdio compatibility
09-09-28 fts.h,ftwalk.h,fts.c: promote { namelen pathlen level } to (s)size_t
09-09-28 locales: add AST_LC_LANG for $LANG
09-09-28 setlocale.c: fix logic for dynamic { LANG LC_ALL LC_* } changes
09-09-17 include/sfio.h,sfio/sfwalk.c: add sfwalk()
09-09-09 sfio/sfputr.c: add SIGPIPE hang fix
09-08-24 sfio/sfreserve.c: fix SF_UNBOUND logic with pushed streams
09-08-18 include/ast_std.h,ast.h: add ast.mb_sync to sync mbchar() after error
09-08-17 comp/setlocale.c: add AST_LC_utf8 and { utf8_mbtowc() utf8_mblen() }
09-08-11 comp/setlocale.c: treat "en"/"en_US" AST_LC_MESSAGES as "C"/"POSIX"
09-08-10 vmalloc/vmhdr.h: add
user-defined _AST_PAGESIZE and computed VMHEAPINCR
09-08-09 comp/conf.tab: add NPROCESSORS_MAX
09-07-29 astlicense.c: fix first name=value logic error
09-07-22 string/fmtip6.c: don't drop trailing 0 in 44::1:0:0
09-06-30 port/astconf.c: standard PATH_RESOLVE is "physical" (not "metaphysical")
09-06-19 vmalloc: sync with kpv
09-06-19 include/shcmd.h: add sh_context(p) cast
09-06-11 misc/magic.tab: differentiate pc 386 32/64 bit dll/exe/obj
09-06-06 port/astconf.c: fix look->name null pointer reference
09-06-05 port/astconf.c: fix 'UNIVERSE = value' synthesize logic
09-05-25 tm/tmxduration.c: add
09-05-08 comp/syslog.c: add _UWIN /var/log/syslog preference
09-05-01 comp/setlocale.c: fix _UWIN intercepts to return NiL on unknown locales
09-04-27 sfio/sfpool.c: fix bug that did not return pool on delete
09-04-22 include/regex.h,regex/regcomp.c: add REG_REGEXP <regexp.h> compatibility
09-04-15 tm/tmxdate.c: handle "4th thursday in november"
09-03-31 string/strvcmp.c,string/strnvcmp.c: add
version strcmp(3)
09-03-31 string/strpcmp.c,string/strnpcmp.c: add path prefix strcmp(3)
09-03-29 misc/optget.c: clean up num = number casts
09-03-04 tm/tmxmake.c: add tmxtm() with zone override
09-03-03 tm/tmxfmt.c: add %(...)<c>, specifically %(...)z for output zone
09-02-22 tm/tmxdate.c: add iso P... durations
09-02-02 path/pathprog.c: add
09-02-02 misc/opthdr.h,optget.c: fix flags mixup, handle old '-' as option
09-02-02 sfio/sfprints.c: fix sfvaprints() return value to not count trailing '\0'
09-02-02 misc/cmdarg.c: handle !defined(ARG_MAX)
09-02-02 port/astconf.c: fix UNIVERSE overwrite of null[] value!
09-01-31 features/sys: drop header sys/localedef.h
09-01-28 include/fs3d.h,misc/fs3d.c: mount() => fs3d_mount() for diff std prototypes
09-01-14 misc/fts_open.c: delay top list reorder until first fts_read()
09-01-14 include/ls.h: LS_W_INUMBER => 9 to accomodate large st_ino

09-01-14 misc/optget.c: expand STYLE_usage input text
09-01-09 features/uwin,stdio/_stdfun.c: iffe for _p__iob
and __p__iob
09-01-09 misc/magic.tab: add ISO filesystem image entries
09-01-07 string/strtoi.c: strtol() etc. do not consume [lLuU] suffix -- thanks jkf
09-01-07 sfio/sfstrtof.h: strtod() etc. do not consume [fFlL] suffix -- thanks jkf
09-01-05 string/strlcat.c: fix logic to match docs (not that easy)
08-12-30 tm/tmxdate.c,include/tm.h: add TM_WORK { "workday" "working" "work" }
08-12-28 sfio/sfcvt.c: fix 'a' format rounding
08-12-21 tm/tmdata.c: add 2008-12-31+23:59:60-0000 leap second event
08-12-19 tm/tmxdate.c: check for dates near the epoch rolling back to the future
08-12-19 tm/tmxfmt.c: change %s for now==0 to be the epoch
08-12-07 include/ast_std.h,misc/getenv.c: no _ast_getenv for uwin ast54 compatibility
08-12-07 tm/tmxfmt.c: add %[_][EO]K for [space pad] [full|long] iso
08-12-07 sfio/sfvscanf.c: fix ok[] short by one allocation
08-12-07 comp/setlocale.c: fix off by one composite initialition loop test
08-12-07 path/pathkey.c: fix off by one loop test
08-12-04 vmalloc/vmbest.c:
catch sbrk() wraparound
08-12-04 comp/spawnveg.c: clean up attrs on failure too
08-11-04 regex/regcomp.c: fix locale [!-...] and [^-...] re-initialization
08-11-04 stdio: add flockfile.c ftrylockfile.c funlockfile.c
08-10-24 port/astconf.c: handle multiple/trailing '/' in universe initialization
08-09-10 misc/magic.c: handle old vcodex() indices
08-09-10 sfio/sfvprintf.c: drop SF_WCWIDTH, use %Lc or %Ls instead
08-09-05 Makefile: ibm.risc joins the :NOOPTIMIZE: crowd
08-09-04 regex/regnexec.c: fix nested delimiter match beyond end of subject
08-08-20 misc/fts.c: fix st_nlink stat() optimization logic
08-08-19 sfio/sfpkrd.c: workaround macosx recv(PEEK) data consumption on non-socket
08-08-19 strn?tol?d: handle long double with smaller exponent range than double
08-08-18 sfio/sfcvt.c: eliminate excessive multiplies and integral overprecision
08-08-11 tm/tmxfmt.c: handle %10N and %010N
08-08-06 include/shcmd.h: add 'int invariant;' for builtin invariant arg count
08-08-05 features/ndbm:
favor sleepycat ndbm compatibility
08-07-21 include/glob.h,misc/glob.c: GLOB_STARSTAR only forces lstat on chdir
08-07-17 sfio: sync with kpv
08-07-17 misc/optget.c: call astwinsize() each time terminal width required
08-07-16 sfio/sfvscanf.c: fix %% to skip leading space per posix
08-07-16 vmalloc/vmbest.c: add VMCHECK=m, VM_mmap to favor mmap() alloc
08-07-16 features/stdio,stdio/f(read|write).c: size_t return value!! ouch
08-06-24 tm/tmxfmt.c: fix %z to handle tm_isdst -- doh
08-06-24 misc/astintercept.c,misc/getenv.c: split from misc/setenviron.c
08-06-17 misc/setenviron.c: add { astintercept() getenv() }
08-06-09 tm/tmlocale.c: use _DATE_FMT if defined for TM_DEFAULT
08-06-06 misc/optget.c: handle sub-component about details
08-06-04 misc/optget.c: fix [-n?\n...\n] version parse
08-06-04 include/debug.h,misc/debug.c: merge with kpvdebug.h

08-06-02 features/ndbm: add to tame dbmlib.iffe replication
08-06-01 comp/resolvepath.c,realpath.c: fix resolvepath() return value type
08-05-22
tm/tmxdate.c: fix a few ordinal/last/this/next bugs
08-05-18 string/fmtre.c: fix omitted stack var initialization bug
08-05-14 regex/regcomp.c,regcoll.c: fix UTF-8 collation sequence logic
08-05-11 tm/tmxfmt.c: :NOOPTIMIZE:, otherwise %Q/../../ fails
08-05-01 tm/tmxdate.c: mon 1..12 => mon[13] -- doh
08-04-30 misc/glob.c,reegex/regcomp.c: ~(R) => ~(O) to avoid pcre clash
08-04-24 port/astconf.c: 'name = value' does assignment without system init
08-04-15 port/astconf.c: SC#N treated like 'SC(N)'
08-04-14 misc/optget.c: clean up nroff output
08-04-01 port/astconf.c: add RELEASE => /proc/version fallback
08-03-30 misc/optget.c: [-n]... to enable -number & +number options
08-03-06 misc/optget.c: ---* and +++* are now operands
08-03-06 misc/errorx.c: fix old error_info.translate workaround
08-02-05 regex/regcomp.c: allow REG_SHELL {,n}... => {0,n}...
08-02-27 misc/stk.c: top element during allocation relocated to top
08-02-18 include/ip6.h,string/strtoip6.c,fmtip6.c: add ipv6 addr
support
08-02-14 regex/regsubexec.c: fix null match (tricky)
08-02-14 regex/regsubcomp.c: fix SRE to match ksh
08-02-11 comp/spawnveg.c: return proper errno on [v]fork() failure
08-02-11 tm/tmxdate.c,tmdata.c: handle more ISO 8601:2000 forms
08-02-02 regex/reglib.h: add REGMULTIREF to REG_COMP
08-02-02 string/strmatch.c: fix str="" pat="" sub values
08-01-31 comp/conf.sh,conf.tab: handle /bin/sh \ in read data, redir subshell
08-01-18 misc/magic.tab: amd-x68, 64-bit => x86-64
08-01-18 string/strnton.c,strntonll.c: add
07-12-10 string/strelapsed.c: "0" is a valid elapsed time!
07-12-02 sfio/sfreserve.c: preserve SF_SHARE sfrd() via sfreserve(f,0,0)
07-11-21 comp/setlocale.c: add sjis_mbtowc() to work around [\~] translation
07-11-15 features/signal.c: RT(1) .. RT(MAX-1) => RTMIN+1 .. RTMAX-1
07-11-14 features/float: favor sscanf() due to gnu strto[l]d() nan bugs
07-10-31 regex/regcomp.c: fix REX_COLL_CLASS node allocation size
07-10-31 sfio/sfcvt.c: use signbit() if available
07-10-31
features/isoc99: _ISOC99_SOURCE tests
07-10-31 port/astmath.c: add -DN=8 for signbit()
07-10-31 sfio/sfstrtod.h: don't forget about -0.0
07-10-26 features/map.c: add { optopt optarg optind opterr }
07-10-26 features/stdio: add _filbuf => _ast__filbuf
07-10-26 comp/getsubopt.c: fix #undef that interfered with <ast_map.h>
07-10-26 regex/regcomp.c: fix bug that missed ')' in ~(F)...
07-10-12 port/astconf.c: fix CONF_ALLOC 16 bit overflow
07-10-12 misc/fts.c: fix fts_close() to free the handle -- doh
07-10-11 comp/setlocale.c: second and subsequent setlocale(*,"") reverts to previous
07-10-11 path/pathprobe.c: add vfs ST_NOSUID check

07-10-10 comp/conf.tab: add a few more xpg6 deferrals
07-09-28 astsa: update to share with mainline src via _PACKAGE_astsa
07-09-25 sfio/sfgetr.c: no limit on string stream line size
07-09-25 sfio/sfextern.c: increase _Sfmaxr to 256*1024
07-09-18 misc/procopen.c: tighten up SIGCHLD logic between parent/child
07-09-18 misc/signal.c: unblock SIG_DFL after setting
handler, sig<0 => don't unblock
07-09-13 misc/fs3d.c: no $LD_PRELOAD => no 3d and avoids invalid mount(2) call
07-09-11 vmalloc: vmstat(0,0)==1 => region in use, drop VM_primary|VM_secondary
07-09-05 misc/recstr.c: handle [lL] gobbled by strtol() -- ouch
07-08-17 path/pathprobe.c: handle '\r' in VERSION string
07-07-17 regex/regcache.c: regcache(0,n,0) extends cache to size n (no shrinking)
07-07-16 tm/tmdata.c: add 2005-12-31, drop 1999-12-31 (where did that come from?)
07-05-21 tm/tmxfmt.c,tmxscan.c: %F => %L (TM_DEFAULT); %F => %Y-%m-%d
07-05-15 sfio/sfvprintf.c: %h? and SFFMT_SHORT => raw bytes
07-05-09 features/signal.c,features/siglist: use kill -l & strsignal()
07-04-25 misc/optctx.c: add for opt_info switching
07-04-24 misc/cmdarg.c,include/cmdarg.h: add CMD_CHECKED, CMD_SILENT
07-04-24 misc/procopen.c,include/proc.h: add PROC_CHECK
07-04-24 misc/procrun.c: add flags arg (current use PROC_ARGMOD)
07-04-24 misc/cmdarg.c,include/cmdarg.h: move from src/cmd/tw
07-04-20 port/(lclang.h|lc.c|mc.c|lclib.h|lcgen.c):
separate lctab.c
07-04-20 comp/conf.sh: defer to systems without 'grep -q' -- sigh
07-04-20 comp/conf.sh: probe for LL integer constant initializer suffix
07-04-20 include/syslog.h: <namval.h> => <ast_namval.h> for win32
07-04-20 ast_namval.h: add as copy of include/namval.h for win32
07-04-19 comp/conf.tab: fix SVID SI entries to probe SI_* (not _SI_*)
07-04-13 tm/tmxdate.c,tm/tmzone.c: handle [-+]0000 UTC zone offset
07-04-11 sfio/sfvprintf.c: add %F, propagate SFFMT_UPPER
07-04-11 sfio/sfcvt.c: handle SFFMT_UPPER => nan/inf vs. NAN/INF
07-04-02 comp/conf.tab,comp/conf.sh: add C/POSIX <stdint.h> symbols
07-03-28 misc/optget.c: fix l10n --?-
07-03-25 features/common: fix { ast_std.h ast_map.h stdint.h } logic
07-03-21 error.h: move from error_info to (*_error_data_)
07-03-21 misc/error.c: add errorctx() for error_info switching
07-03-21 option.h: move from opt_info to (*_opt_data_)
07-03-19 regex/regdecomp.c: fix REX_ONECHAR escapes and add REX_KMP
07-03-11
tm/tmxscan.c,regex/regnexec.c: fix strict-alias transgressions
07-02-27 comp/conf.sh: handle native getconf invalid numeric values
07-02-21 comp/conf.sh,comp/conf.tab: handle SSIZE_MAX vs _POSIX_SSIZE_MAX
07-02-20 sfio/sfvprintf.c: handle SF_WCWIDTH justification
07-02-14 features/common: cover <stdint.h>, move to int_(bits)_t
07-02-14 include/int.h: drop
07-02-14 include/sfio.h: add SF_WCWIDTH
07-02-12 comp/conf.sh: fix CONF_LIMIT bug that missed ULONG_MAX etc.
07-02-12 comp/conf.tab: *LONGLONG* => *LLONG* to match posix

07-02-12 features/float: *LONGLONG* => *LLONG* to match posix
07-02-12 port/astconf.c: handle CONF_LIMITS_DEF with no deferral
07-02-12 stdio/vasprintf.c: add trailing '\0' -- doh
07-02-04 string/fmtelapsed.c: fix naive multi month/year logic
07-02-02 misc/optget.c: add --??posix for getopts(1)/getopt(3)
07-01-26 string/chresc.c: use mbchar()
07-01-26 misc/optget.c: handle "o:-:" usage for old-style long options
07-01-22 sfio/sfdisc.c,sfpool.c: handle push on
streams with pending peek
07-01-22 include/sfio.h: mv Sfieee_t to sfio/sfhdr.h
07-01-17 tm/tmxfmt.c: fix terminating nil logic which clobbered size-1
07-01-11 misc/stk.c: a 2 day marathon bug fix (can we release now dr ek?)
07-01-05 comp/spawnveg.c: posix_spawnattr_setflags(POSIX_SPAWN_SETPGROUP)
07-01-05 misc/error.c: fix multibyte vs. printable logic
07-01-01 comp/conf.sh: LC_ALL=C
06-12-26 tm/tmxdate.c: handle nn*.nnnn* == sec.ns
06-12-20 features/libpath.sh: generalize sol.* LIBPATH patterns
06-12-18 comp/setlocale.c: include ast_standards.h and ast_wchar.h !
06-12-12 string/strperm.c: octal modes are absolute!
06-12-11 comp/conf.tab: always defer ARG_MAX
06-12-07 Makefile: fix conftab.c generation CCFLAGS to match build - doh
06-12-04 sfio/sfcvt.c: fix (int) vs. (long) cast mismatches
06-12-01 comp/conf.tab: add changes to cover solaris { bin xpg4 xpg6 }
06-12-01 regex/reginit.c: adjust { SRE KRE } escaped (){}*? inside [...]
06-12-01 sfio/sfcvt.c: add signbit/copysign tests
06-11-22
comp/spawnveg.c: fix _real_vfork logic to work with 3d
06-11-20 features/common: bias _ast_int8_t "long long" before "__int64"
06-11-20 string/strperm.c: fix X to work with all ops (not just +)
06-11-15 astconf.c,conf.tab: add CONF_DEFER_* for variable constants
06-11-11 port/astconf.c: validate path arg w.r.t. underlying calls
06-11-11 comp/conf.sh: fix S CONF_STANDARD bug, add D to defer to native
06-11-11 comp/conf.tab: add D to defer to native
06-11-01 include/vmalloc.h: avoid VM_FLAGS sys/v*.h clash
06-11-01 include/ast.h: add FMT_PARAM for fmtquote()
06-10-31 disc/sfdcseekable.c: add SFSK_DISCARD for seekable window control
06-10-31 comp/spawnveg.c,features/lib: handle posix_spawn exit status 127
06-10-30 features/lib: fix posix_spawn() fork() prototype conflicts
06-10-30 string/fmtscale.c: fix 1024 rounding bugs
06-10-27 disc/sfkeyprintf.c: handle 'i' (=='d') -- oops
06-10-26 sfio/sfvprintf.c: %#d => fmtscale(1000), %#i => fmtscale(1024)
06-10-26 features/map.c: _map_libc cleanup
06-10-26
features/fcntl: add to the circle of trust
06-10-26 features/sys: add <sys/socket.h> socklen_t
06-10-26 include/regex.h: handle include before <ast_map.h>
06-10-25 astconf "SHELL" => "SH" to avoid _POSIX_SHELL conflict
06-10-25 comp/conf.*: drop no-op duplicate conftab.c entries

06-10-18 string/fmtscale.c: 1000: n[.]n[n](kMGTPE), 1024: n[.]n[n](KMGTPE)i
06-10-11 ast_std.h: now implies <sys/stat.h> (did on most before anyway)
06-10-11 strtoi.h: ignore sign for 0, validate scale shift
06-10-11 strdup.c,vmstrdup.c: handle 0 arg
06-10-11 add sfstruse()/sfstropen() error checks
06-10-10 misc/procopen.c: envv==environ => don't modify environ
06-10-10 misc/procclose.c: return valid exit(1) status
06-10-06 port/astconf.c,comp/conf.sh,comp/conf.tab: play nice with getconf(1)
06-10-01 comp/conf.tab: SHELL default checks { _CS_PATH } X { ksh ksh93 sh }
06-10-01 comp/conf.sh: export CONF_getconf to shell actions
06-10-01 comp/putenv.c: always enable setenv() for procopen()
06-10-01
 misc/procopen.c: use pathshell() or astconf("SHELL",0,0) if PARANOID
06-10-01 path/pathshell.c: localize the shell path patterns and accept ksh93
06-09-28 Makefile: avoid ast <stdio.h> vix iffe -X ast -- doh
06-09-27 regex/regdecomp.c: add
06-09-26 regex/regcomp.c: handle KRE ~(...)<invalid-kre>
06-09-25 reorganize to avoid native header intercepts
06-09-15 uwin/crypt.c: _UWIN only!
06-09-14 Makefile: tweak the ast_common.h bootstrap again (finally?)
06-09-14 misc/optget.c: noncommercial => OPT_proprietary
06-09-12 string/strelapsed.c: fix multi-char qualifier parse
06-09-12 string/strtoi.h: drop [cClLqQwW] multipliers
06-09-11 misc/optget.c: add numeric arg validity check
06-09-07 misc/optget.c,tm/tmfix.c: fix uninitialzed var refs
06-09-05 path/pathprobe.c: add version header verification
06-08-01 Makefile: handle iffe vs FEATURE/common vs ast_common.h
06-08-31 Makefile: add ast_map.h to the bootstrap list
06-08-30 misc/glob.c: fix ~(E)re bug that stripped ~(E) before regcomp
06-08-30
 include/ast.h: add { integralof(x) pointerof(x) }
06-08-27 string/strelapsed.c: fix off-by-one (too little) parse bug
06-08-25 misc/optget.c: 0*<n>.* numeric option args => <n>.*
06-08-22 misc/glob.c: handle ~(...) pattern options
06-08-16 string/strelapsed.c: fix off-by-one (too far) parse bug
06-08-16 regex/regcomp.c: accept but ignore ~(N)
06-08-14 features/libpath.sh: add solaris LD_LIBRARY_PATH_64 check
06-08-05 sfio/sfpool.c: pool SF_READ|SF_WRITE loop fix
06-08-02 misc/fts.c: fix FTS_NOSTAT optimization to check for ..
06-07-28 include/glob.h: add gl_extra for user globlist_t expansion
06-07-27 features/common: #include "ast_map.h"
06-07-26 comp/fnmatch.[ch]: allow <ast_map.h> to map fnmatch()
06-07-22 cdt: snarf from kpv
06-07-17 string/strperm.c: perm==-1 skips umask(1)
06-07-17 sfio/sfvprintf.c: handle format invalid mb seq
06-07-17 regex/regcomp.c: inline REG_SHELL => anchored, otherwise not
06-07-17 regex/regcomp.c: inline B|G:basic E:REG_EXTENDED F|L:REG_LITERAL
06-07-17

regex/regcomp.c: inline l:REG_LEFT r:REG_RIGHT
06-07-17 regex/regcomp.c: inline a:REG_LEFT|REG_RIGHT p:~REG_LENIENT
06-07-17 string/chresc.c: add \Uxxxxxxxx
06-07-17 sfio/sfstrtof.h: ignore thousands sep after decimal
06-07-17 string/tokline.c: splice() => spliceline() for bsd
06-06-27 features/float,sfio/sfcvt.c: fix Nan logic
06-06-27 port/astmath.c: fix long double isnan() test
06-06-27 features/map.c: _map_libc for std => _ast_std
06-06-25 string/strperm.c: handle posix = w.r.t. umask
06-06-19 port/mnt.c,features/fs: handle netbsd getmntent api change
06-06-18 regex/regstat.c: add REG_LITERAL check
06-06-11 cdt/dtview.c: update from kpv
06-05-31 sfio/sfhdr.h: fix _SFOPEN() typo
06-05-09 comp/conf.sh: add native getconf -a names to the mix
06-04-28 misc/optget.c: add solaris long option name compatibility
06-03-09 string/strmatch.c: add REG_ADVANCE => REG_* flags
06-02-14 comp/iconv.c: fix uwin iconv_list() /reg/ generator
06-02-10 port/astconf.c: relax standard prefix filter
06-02-08
sfrd.c,sfsync.c: lock logic bug fix
06-02-01 port/astlicense.c: add { parent incorporation }
06-01-26 port/astconf.c: fix { LIBPREFIX LIBSUFFIX } length
06-01-06 features/lib: change _UNIV_DEFAULT probe to use cross{...}
06-01-04 misc/stk.c: fix n**2 realloc behavior
06-01-01 include/sfio.h: export { _Sfi _Sfmaxr }
05-12-13 string/chresc.c: handle \C-X => control-X, \M- => ESC
05-11-22 regex/regcache.c: add, convert string/strmatch.c to regcache()
05-10-06 string/ccmap.c: update ebcdic-u to be idempotent
05-09-28 vmalloc: snarf from kpv; fixes large block brk() thrashing
05-09-26 misc/magic.c,misc/magic.tab: handle latest vcodex header
05-09-12 misc/optget.c: reset opt_info.offset on error
string/strtoi.h: strton() '.' multiplier only if m>1
string/fmtesc.c: add unadvertized FMT_PARM for FMT_SHELL
05-09-09 string/fmtesc.c: fix FMT_SHELL logic w.r.t. [$`]
05-08-11 string/strerror.c: fix { sys_errlist sys_nerr } prototypes
05-08-03 sfio: snarf sfvaprints sfaprints
05-07-21 port/astconf.c:
retain most recent synthesized lookup
05-07-20 sfio/sfsetbuf.c: default file io size now 64K on all systems
05-07-17 ccmap*: add microfocus cobol EBCDIC_U
05-06-29 regex/regcomp.c: fix the A & B inline flag logic
05-06-15 include/recfmt.h: add fs format flag to fmtrec()
05-06-14 error.c: add ERROR_OPTIONS { break count match }
05-06-07 features/stdio: drop FEATURE/limits to fix bootstrap circular dep
05-06-02 features/*,Makefile: drop vestigel iffeio.h bootstrap workaround
05-05-31 string/fmtbuf.c: unlock (spin) before each return -- doh
05-05-30 sfio/sfpkrd.c: work around macos 10.4 recv(MSG_PEEK) bug
05-05-27 regex: add REX_NEST (?%[S.][T.][OT])

magic.tab: ammend bsd db magic
05-05-23 regex: REX_NEST (?%[D.][E.][L.][Q.][oc]...)
05-05-21 regex: state.fold[] is now locale specific -- doh
05-05-19 regex: add REX_NEST (?%\\()<>[]""...) %(...) nested match
05-05-15 recfmt.h: add recstr() reclen() fmtrec()
05-05-13 optget.c: allow boolean options to take numeric values
05-05-12
recfmt.c: add to recfmt.h, adjust Recfmt_t encodings
05-04-30 sfio: add sfmaxr(), default 64K
05-04-22 comp/omitted.c: fix magic() logic for files < 512 bytes
05-04-20 cdt: snarf update from kpv; void* Dt_t.user added
misc/error.c: library => ERROR_LIBRARY
05-04-19 regex/regcomp.c: handle REG_SHELL [^...] == [!...]
05-04-11 tm/tmxscan.c: handle yyy.mm.dd[-+.]hh.mm.ss.nnnnnn
05-04-07 regex/regnexec.c: fix out of bounds boundary check -- ouch
features/align.c: add jmp_buf to the alignment mix (ia64)
vmalloc/vmhdr.h: add jmp_buf to the alignment mix (ia64)
05-03-31 misc/optget.c: fix option { - _ } separator matching
05-03-30 misc/glob.c: eliminate superfluous GLOB_NOMATCH stat() calls
05-03-24 port/astwinsize.c: include <sys/ioctl.h> if possible
05-03-23 string/ccmap.c: add ebcdic-m mvs cobol table
05-03-11 comp/omitted.c: handle utime[s](const,const)
comp/conf.tab: fix linux PID_MAX probe
05-03-10 comp/setlocale.c: LC_* value "" => unset -- doh
misc/optget.c: reorder _PACKAGE_astsa
code for msgcc
05-03-08 misc/optget.c: delete leading space in STYLE_nroff output
05-03-07 sfio/sfhdr.h: drop extern _sfdscan -- clashes with sfvscanf.c static
05-03-01 tm/tminit.c: add tmlocaltime() for tzset() getenv() override workaround
05-02-20 features/tvlib: tmsettimeofday only for systems that have settimeofday
features/float: fix mvs.s390 NaN tests
05-02-18 tm/tmxmake.c: fix <0 west of GMT bug that warped to 1800's -- wow
05-02-11 port/mnt.c: handle lynxos MOUNTED=/etc/fstab
05-02-08 features/float,sfio.h,sfcvt.c,sftable.c: add INF and fix NAN
05-02-04 features/lib: add _std_strtol (for lynxos)
include/ast_std.h: add _std_strtol tests
comp/strtod.c: #define S2F_function strtod
misc/signal.c: fix ancient bsd SV_INTERRUPT vs. SV_ABORT clash
05-01-11 sfio/sfmove.c: try to seek(fr) when fw==0
comp/omitted.c: intercept utimes() too
comp/omitted.c: add DOSPATHVARS env var path value conversions
features/tvlib,tm/tvtouch.c: check for utimets()
misc/optget.c: handle
'-' or '_' option word separators
sfio/_sfopen.c: allow stream mode changes after initialization
sfio: sync with kpv: SF_SYNCED fix for ksh input loss bug
05-01-09 tm/tmxfmt.c: fix %6N for n<100000000
05-01-08 regex/regcomp.c: conj() => con() to avoid C99 clash

05-01-05 tm/*: fix { %U %V %W } logic -- my head hurts
04-12-30 tm/tmxtime.c: fix tm_isdst<0 loop
04-12-23 vmalloc/vmbest.c: fix vmresize bug that didn't 0 new data
04-12-19 misc/optget.c: broaden - long option match
04-12-09 string/strtoi.h: fix terabyte 't' suffix math
  string/strmatch.c: flush cache on locale change
04-12-01 tm/tmsleep.c: add
  tv.h,tv*.c,tv.3: move from pax
  tmx.h,tmx*.c,tmx.3: add high resolution tm(3) counterparts
  features/lib: add *another* sgi linux.ia64 memccpy bug check
04-10-31 Makefile: __OBSOLETE__ now computed <6 months ago year>0101
  ccode.h,ccmapid.c: add ccmaplist(Ccmap_t*) iterator
  option.h,optesc.c: add 3rd arg, 1 => quote '?' too
  misc/magic.c: fix bug that terminated `string
 \0a' at \0
  misc/magic.c: handle vcodex() via decompose()
  misc/magic.tab: add vcodex magic
  features/stdio: handle _LARGEFILE64_SOURCE -- oops
  stdio/(fseek|ftell|fseeko|fsetpos|fgetpos|ftello).c: oops^2
04-10-28 string/swapop.c: size==-4 => size=4 and extend op=3 to op=7
  tm/tmfix.c: fix tm_mon<0 logic
04-10-22 tm/tmdate.c: handle 'final day feb 2004'
  port/astlicense.c: add query=all|id|${...}${...}
  port/astlicense.c: "free" => "mit"
  comp/omitted.c: revert to the open source license
  string/stropt.c: drop siz==0 => tab is hash table
  include/sfio.h: incorporate <sfstr.h>
  include/sfstr.h: drop
  disc/sfstrtmp.c: drop -- use sfstrbuf()
04-10-20 misc/magic.tab: update tar magic
04-10-18 ufc-crypt.h,crypt_util.c: drop GPL code
  crypt.c: add BSD code
  pathpath.c: disable { $0 $_ $PWD } related root search
04-10-01 normalize ident stamps
  port/astlicense.c: add type=cpl -- yeah
04-09-25 string/swapop.c: return op < size -- duh
04-09-23 comp/spawnveg.c: :NOOPTIMIZE: -- volatile
 sometimes ignored
04-09-21 comp/spawnveg.c: exec_errno_ptr is volatile -- duh
04-09-14 tm/tmscan.c: add %| alternation and %& => tmdate()
04-09-08 misc/optget.c: add :!value: omitted optional arg value
  misc/optget.c: fix --noNAME ambiguous option logic
04-08-26 string/strperm.c: add who^mode to propagate least restrictive up
  astmath.c: add { frexpl ldexpl } checks for ast.req
  port/astlicense.c: ignore first option if non-assignment
  include/ast_dir.h: move d_fileno map before struct defs -- duh
04-08-24 vmalloc/vmbest.c: add {VM_region} VMCHECK=+r for region segment checks
  misc/recfmt.c,include/recfmt.h: add

04-08-23 vmalloc/vmbest.c: add {VM_primary VM_secondary} VMCHECK=-s for primary
features/common: punt to <stdarg.h> for unknown va_list
04-08-11 vmalloc: sync _UWIN libposix hooks
04-07-27 features/common,features/limits.c: ULL suffix for unsigned _ast_int8_t
04-07-22 include/ast.h,comp/eaccess.c: add eaccess() for effective access()
04-07-19 comp/open.c,sfio/_sfopen.c:
{ O_RDONLY O_WRONLY O_RDWR } are values
04-06-28 misc/error.c: check level after error_info.auxilliary
04-06-24 string/strmatch.c: strgrpmatch() match[] now variable size array
04-06-17 features/common: change _DLL null define to (the standard ast) 1
04-06-11 misc/optget.c: allow optional [-|+|--|++] optstr() option prefix
misc/optget.c: reset optstr() state on 0 return
misc/optget.c: text()=>textout() linux.ppc symbol hijack workaround
04-05-31 sfio/sfreserve.c: no side buffer if user buffer is large enough
04-05-27 string/fmtbuf.c: handle one concurrent buf > sizeof(buf)
04-05-24 regcomp.c: fix no-advance initialization
04-05-05 conf.tab,conf.sh: update to align with standards
magic.tab: ms suffix update
04-05-04 port/lcgen.c: fix territory initialization
04-04-15 tm/tmdate.c,include/tm.h: fix specific and ordinal days
04-04-08 astconf: retain { HOSTTYPE LIBPATH LIBPREFIX LIBSUFFIX } strict vals
04-04-07 vmalloc/vmbest.c: fix alpha tiny block bug
vmalloc/malloc.c: re-enable
on alpha
04-03-30 tm/tminit.c: GMT => UCT only if tz.daylight not defined
04-03-25 vmalloc/malloc.c: _AST_std_malloc=1 for __alpha
path/pathprobe.c: per-user probe dir => $HOME/.probe/$HOSTTYPE
04-03-23 regex/reglib.h: fix isw*() redefines
04-03-17 features/stdio: no __FILE override for __CYGWIN_ (sys/reent.h clash)
sfio/sfhdr.h,sfio/sfsetbuf.c: lower sfmove() default buf size 4x
04-02-29 comp/omitted.c: move env trace after PATH fixup
comp/omitted.c: cygwin spawn _P_DETACH => _P_NOWAIT+setpgid(pid,0)
misc/optget.c: fix html mailto: match
port/astlicense.c: add type=test for fixed 2001 date
features/float: check local NaNQ first
vmalloc/vmhdr.h: fix _vmextern_ vm_truncate return type
misc/magic.tab: add elf s390 index=22
04-02-26 vmalloc: VMCHECK a:assertions c:arena-check w:warn-instead-of-abort
sfio/sfvscanf.c: fix extf arg selection
04-02-24 features/dirent: set nodefine to avoid ast_std.h _typ_off64_t undef
disc/sfkeyprintf.c: only case pattern must be ()[]
balanced
04-02-14 include/sfio_t.h: add SF_DCDOWN, SFDCNEXT(), SFDCPREV()
04-02-13 string/strmatch.c: fix bug that didn't save one-time sub[] size
vmalloc: -g: export VMCHECK=1 enable malloc/free checks
vmalloc: -g: free(0) to check and disable malloc/free checks
vmalloc: -g: free(1) to check and enable malloc/free checks
04-02-11 Makefile: add :P=A: to conf and lcgen exec for cross-compile

regex: use MBSIZE() instead of mbsize() to grab 1 char on err
vmalloc/vmbest.c: updated to do more comprehensive DEBUG tests
04-02-04 sfio/sfraise.c: add sfraise(0,a,b) to iterate over all streams
04-02-01 vmalloc/vmbest.c: _BLD_DEBUG free(0) checks the arena
04-01-31 features/vmalloc: fix typo that missed _mmap_zero
04-01-23 string/strerror.c: handle real strerror() return value overwrite
04-01-11 path/pathpath.c: fix size vs. sizeof(buf) typo
03-12-22 misc/magic.tab: dos EXE tweaks
03-12-05 vmalloc: sync with kpv, adding exceptf announcements
03-12-04 port/astlicense.c: fix expand() loop
sentinel bug
03-12-02 include/ast.h: mbchar() advances by 1 on mbtowc() error
misc/fts.c: increase MINNAME to 32
03-11-21 vmalloc/vmbest.c: export VMCHECK=1 to enable $(CC.DEBUG) vmcheck()
vmalloc/vmbest.c: export VMCHECK=2 to disable KPVCOMPACT
misc/magic.c: add { cobol copybook pl1 } and suffix preference
03-11-12 features/stdio: drop cuserid,getopt for SUSV3
03-11-11 vmalloc/*: merge kpv update -- this should stomp the compaction bug
03-10-23 comp/iconv.c: fix sfreserve lock fallback
03-10-20 sfio/_sfopen.c: add to allow user sfopen() intercept
03-10-17 regnexec.c: fix exec time REG_LEFT, \x.... => wctomb()
03-10-12 string/strtoi.h: fix strton '.' overconsumption
03-10-12 comp/iconv.c: identity is always (iconv_t)0
03-10-09 string/fmtesc.c: fix FMT_SHELL to check for all shell magic chars
03-10-01 port/astlicense.c: unknown authors copied verbatim (instead of ignored)
03-09-30 string/chresc.c: handle \u..., \x... consumes all trailing hex digits
string/stresc.c: \u...
and \x... > UCHAR_MAX => wctomb()
03-09-29 fnv.h: add
03-09-23 modedata.c: table is for external modes, so no arch specific hacks
optget.c: fix option prefix match translation bug
optget.c: add `<length> <name>=<value>\n' to optstr()
features/lib: add memcmp() test for sgi optimzation bug
03-09-22 regex.h,regcomp.c: add regncomp()
regclass.c: fix for loop dangling ; in regaddclass()
03-09-20 sftable.c,sfvprintf.c: fix SFFMT_CHAR handling to match extf api
03-09-19 sfmode.c: update release to kpv's
03-09-17 regcomp.c: add pedantic backref error checks
03-09-16 regnexec.c: exec time REG_LEFT => don't advance past initial position
regclass.c: add regaddclass() for user defined [:class:]
regexec.h: REG_VERSION_N2X, add redisc_t {re_map} ccode map
regstat.c: add regstat_t
03-09-11 optget.c: --n:=v sets opt_info.assign=':', opt_info.number enabled
03-09-09 disc/sfkeyprintf.c: *pn on lookup is arg separator; lookup "" arg too
03-09-05 optget.c: [f:l*?] preserves user long name
past '*' in opt_info.name[]
03-09-03 sfstr.h: add sfstrpend() for #pending bytes in read buffer
03-08-25 regex: add REG_FIRST, optimize bm

features/lib: _AST_no_spawnveg==1 falls back to fork/exec
03-08-22 features/stdio,stdio/asprintf.c,stdio/vasprintf.c: add
03-08-21 path/pathnative.c,path/pathposix.c: interix updates
features/botched: add cygwin _stat => _stat64
03-08-15 include/ast.h: map out bsd strmode()
features/common: add interix _ast_intmax_t workarounds
misc/fs3d.c: 3d mount test now uses "" instead of NiL (or cygwin dumps)
03-08-11 string/fmtesc.c: fix optional quoting checks
tm/tmdate.c: fix > 1 year of seconds arithmetic
tm/tmfix.c: fix leap year adjustments
03-08-01 features/lib: beef up sock_peek test for interix
03-07-29 features/float: add -lm to frexp... test
Makefile: fix -lm astmath test sense
03-07-26 features/mem.c: favor _mem_sbrk over _mem_mmap_*
03-07-22 vmalloc/vmbest.c: fall back to sbrk() if mmap() fails
features/mem.c: _mem_sbrk means sbrk()
and brk() work
03-07-17 regex/regcomp.c: fix bug that treated KRE X{n,m} like {n,m}(X)
misc/magic.c: check MAGIC_VERBOSE for all load() messages
03-07-14 misc/optget.c: handle [...]{[...]\f...\f...}
03-06-21 misc/sigcrit.c: block SIGCHLD if _lib_sigprocmask || _lib_sigsetmask
comp/spawnveg.c,sfio/sfmode.c: use sigcritical() SIG_REG_* macros
comp/spawnveg.c: drop ENOEXEC logic
vmalloc/*: snarf kpv KPVCOMPACT() fix
vmalloc/vmbest.c: export VMCHECK=2 to disable KPVCOMPACT (just in case)
string/strdup.c: drop __strdup() etc. intercepts -- malloc gets it
features/mem: define _mem_method and _mem_* possible values
vmalloc/malloc.c: _AST_mem_method==_mem_* to force mem get method
sfio/sfputr.c: __ia64 memccpy is bogus -- how many tries do they get?
path/pathshell.c: verify abs path and access(path,X_OK) -- duh
vmalloc/vmhdr.h: add private _Vmessage() for non-sfio ASSERT()
port/astconf.c: fix bug that always returned the minmax value
03-06-11 comp/*.c: reorder macro
hding for mvs.390 and <ast_map.h>
features/vmalloc: add _lib_brk and _lib_sbrk verification
include/ast_std.h,etc.: add _map_malloc for malloc => _ast_malloc
comp/conf.sh: fix SI_* and *_SI_* macro redefs
ast.h: VMDEBUG or _BLD_DEBUG enable <vmalloc.h> and VMFL tracing
vmalloc/vmtrace.c: _PACKAGE_ast __FUNCTION__ is a string
vmalloc/vmtrace.c: set trace file fd FD_CLOEXEC
vmalloc/vmbest.c: set /dev/zero mmap fd FD_CLOEXEC
features/mmap: fix ancient read() vs. mmap() time arithmetic typo
vmalloc/malloc.c: _AST_std_malloc==1 to force standard malloc
03-06-09 comp/omitted.c: add _imp__FUNCTION sybols for __CYGWIN__ static link
vmalloc/vmbest.c: handle systems with sbrk() but no brk()
03-06-04 port/astconf.c: drop non-standard diagnostics
03-06-03 comp/conf.sh: rework symbol collision logic
03-05-30 conf.tab,conf.sh,astconf.c: add <sys/systeminfo.h> sysinfo() SI_*

03-05-29 ccode.h: rework for extensibility, drop obsolete mematoe(), memetoa()
03-05-28 regex/*: recode
 to use isw*() directly when needed, is*() otherwise
03-05-27 features/vmalloc: fix _std_malloc test
03-05-25 misc/optget.c: fix optstr() ???* internal options
03-05-24 misc/optget.c: fix (ancient) argv null dereference
03-05-23 comp/getcwd.c: don't intercept on _WINIX -- unreliable st_ino
03-05-22 sfio/sfsprintf.c: n<0 => don't append '\0'
03-05-18 misc/fts.c: re-stat FTS_DP to update nlink/times
  misc/fts.c: add FTSENT.stack to eliminate getlist() recursion
  regex/ucs_names.h: use "..." catenation to placate some cc's
03-05-11 string/strtoi.h: handle "-" "+" "0x" "11#"
03-05-09 vmalloc/vmbest.c: large memory allocation tweaks
03-05-06 misc/optget.c: fix getopt_long() prefix==1 bug that missed short flags
03-04-27 comp/system.c: handle <ast_map.h>
03-04-24 vmalloc/vmmopen.c: drop dup <unistd.h>
03-04-21 tm/tmdate.c: fix next hour/min logic
03-04-15 vmalloc/malloc.c: intercept __malloc() along with __libc_malloc()
  string/strdup.c: intercept __strdup() along with __libc_strdup()

 features/mmap: consolidate from features/(lib|sfio|vmalloc)
  add _NO_MMAP==1 to disable all mmap()/munmap() calls
  path/pathposix.c: add
03-04-14 comp/setlocale.c: fix debug_mbtowc() return value for *s==0 || n < 1
  comp/iconv.c: fix error return errno values
03-04-11 misc/stk.c: fix stkgrow() realloc bug
03-04-05 string/tok.c: support readonly single token input strings
  disc/sfdcdio.c: fix F_DIOINFO and FDIRECT #ifdef's
  include/ast_std.h: allow _LARGEFILE64_SOURCE on __hppa
  features/common: fix `tst _foo_' => `tst foo_' typo
  features/float: fix `tst _foo_' => `tst foo_' typo
  features/float: add FLTMAX_(UINTMAX_MAX,INTMAX_MAX,INTMAX_MIN)
  comp/omitted.c: fix pathconf => _pathconf => _ast_pathconf loop
03-04-03 features/float: add _ast_no_um2fm: no usinged intmax => floatmax cast
  vmalloc/vmbest.c: add getenv("VMCHECK") to initialize Vmcheck
03-03-28 include/ast_dir.h: add D_TYPE; { D_FILENO D_TYPE } must be #ifdef'd
  misc/fts.c|getcwd.c|glob.c,preroot/getpreroot.c: add
 D_FILENO #ifdef's
  Makefile: make sure _BLD_ast is defined for all compiles
03-03-27 ast_vfork.h: generate from features/vfork to pick up headers/pragmas
03-03-25 comp/omitted.c: drop free() of live environ
  path/pathshell.c: allow trailing .exe -- pox on that
  string/strtoi.h: fix bug leading 3 digits before thousands sep bug
  string/(fmt|str)[gu]id.c: we know root when we see it
03-03-24 misc/optget.c: handle : and ? in := default value
03-03-21 ast_std.h: drop all spawn*() but spawnveg()
  obsolete/spawn.c: add for dropped spawn*()
  features/lib: _use_spawnveg if spawnveg() is a win over fork()/exec()

features/lib: drop NutForkExecve() and _map_spawnve
features/lib: fix memccpy test to clean up /tmp droppings
comp/spawnveg.c: call posix_spawn() if implemented
comp/omitted.c: add spawnve() intercept
comp/getoptl.c: set getopt_long() optind even if no options
tm/tmfmt.c: add %Q<delim>recent<delim>distant<delim>
misc/optget.c: fix trailing '*' for option and option
args
sfio/sfmode.c: getenv("_AST_SFIO_OPTIONS") [,]SF_LINE[,] for fd {0,1,2}
vmalloc/*: kpv sync for uwin build independent of libast
03-03-18 port/astconf.c: switch to dynamic string values (saves 7K data/bss)
string/strmatch.c: switch to dynamic regex cache (saves 3K data/bss)
regex/regcoll.c,ucs_names.h: initialize rw tables from smaller ro data
features/lib: add vfork test for passing SIG_IGN across exec
features/lib: add spawn test for passing SIG_IGN across spawn
03-03-17 comp/omitted.c: unlink() renames to .deleted dir in case file open
sfio/sfpopen.c: handle mode "" for spawn with no pipe
features/float,comp/frexp.c,comp/frexpl.c: add pow2() table alternative
03-03-12 features/lib: fix linux.ia64 memccpy() tests -- now its their turn
features/vmalloc: fix /dev/zero test
features/align: _ast_intmax_t and _ast_fltmax_t join the union
misc/stk.c: fix struct frame size to align data
disc/sfdcdos.c: change sfslen() => sfvalue(f)
03-03-10 misc/optget.c: handle
[f\f:x:lll\f?ddd]
03-03-07 port/astconf.c: uninitialized CONFORMANCE + POSIXLY_CORRECT => standard
03-03-05 comp/omitted.c: make sure at least /bin is in PATH to find cygwin dlls
03-03-02 path/pathshell.c: write access to /bin is effectively root
03-02-28 features/float: add (FLT|DBL|LDBL)_U?(LONG|LONGLONG|INTMAX)_(MIN|MAX)
03-02-25 features/lib: change vfork() test to use _exit() instead of exit()
03-02-23 include/error.h: update ERROR_VERSION for error_info.number space
03-02-22 comp/conf.sh: wrap ksh check in eval to avoid premature exit
03-02-21 misc/fts.c: verify chdir(..) to avoid malicious dir rename()
03-02-19 string/strtoip4.c: isspace() instead of ' '||'\t'
03-02-17 regex/regcomp.c: fix stats.l REX_REP logic that botched REX_BM
03-02-13 string/base64.c: handle catenated encodings
03-02-11 features/libpath.sh: change LIBPATH to <dir>[:<env>[:<pat>]][,...]
03-02-07 path/pathfind.c: allow "/dev/null" to be PATH_REGULAR
03-02-06 include/ast.h,fmtquote.c: add FMT_ALWAYS|FMT_ESCAPED|FMT_SHELL|FMT_WIDE
03-02-05
tm/tmdate.c,tm/tmword.c,string/strelapsed.c: '_' treated like ' '
03-02-01 string/strelapsed.c: handle ps style [day-][hour:]min:sec
03-01-31 port/astlicense.c: fix author=* match
03-01-30 include/tm.h: add tmisleapyear() macro
03-01-29 comp/getopt.h,comp/getoptl.c: add gnu getopt_long(), getopt_long_only()
include/ast_getopt.h: for non-gnu part of comp/getopt.h
include/ast_std.h: include <ast_getopt.h> instead of <getopt.h>
03-01-28 ast.h,string/base64.c: add base64encode() and base64decode()

path/pathfind.c: verify S_ISREG()
03-01-24 path/pathexists.c: fix abs dir bug and deal with case ignorance
03-01-23 path/pathpath.c: honor PATH_ABSOLUTE for the easy case too
03-01-22 path/pathprobe.c: fix search to find both the probe script and command
03-01-17 misc/magic.tab: application/zip => appplication/(gzip|pzip|zip)
03-01-14 misc/optget.c: change href="" to href="."
03-01-10 include/ast_std.h: strtold() import hackery for static __CYGWIN__
03-01-03 include/regex.h,regex/regcomp.h:
add REG_SHELL_GROUP
include/ast.h,string/strmatch.c: add STR_GROUP for REG_SHELL_GROUP
02-12-15 include/error.h: errorcontext => Error_context_s (compatible til 2004)
02-12-06 misc/sigdata.c: add NoF(sigdadata) -- why nmake was uninterruptable!
02-12-03 comp/omitted.c,features/omitted: handle cygwin alarm() return botch
02-11-27 misc/swapop.c: op=3,size=4 => op=7
string/strlcat.c,strlcpy.c: fix uwin decl clash
02-11-26 sfio/sfvprintf.c: fix sfsprintf() '\0' termination bug
02-11-22 misc/glob.c: move static struniq() to libast extern
string/fmtversion.c,include/ast.h: add fmtversion
02-11-18 string/strncopy.c: add
misc/magic.tab: list size for magicid.h magic
02-11-14 sfio/sfvprintf.c: add %#c for C escapes
include/error.h: add ERROR_NOTIFY context flag for builtin commands
02-11-11 string/strtoi.h: add S2I_size for strnto*() size_t 2nd arg
sfio/sfstrtof.h: add S2I_size for strnto*() size_t 2nd arg
comp/putenv.c: add setenv() and unsetenv()
wrappers for setenviron()
02-10-31 path/pathfind.c: add dir of including file to the pathinclude() list
misc/optesc.c: add
02-10-30 string/strtoip4.c: set next char pointer even on error
02-10-29 comp/resolvepath.c: add (size_t version of realpath())
misc/mime.c: fix mimehead() to ignore null content values
02-10-28 misc/glob.c: add GLOB_STARSTAR for /**/ and GLOB_NOTDIR optimization
02-10-27 string/struniq.c: add
02-10-23 features/common: fix off-by-one loop check
02-10-18 include/ast_std.h: avoid off_t,ftruncate,lseek,truncate redefinitions
02-10-17 misc/mime.c: handle type/* match, fix bogus header parse
02-10-04 sfio/sfstrtof.h: S2F_static <0:export =0:private >0:static
02-10-02 features/common: don't define _WIN32; define _WINIX => unix on windows
features/tty: finally stomp the bsd _POSIX_VDISABLE redefinition
misc/fastfind.c: add more specific findwrite() error messages
comp/omitted.c: fix cygwin utime() to update st_ctime
comp/strtol.c,strtoul.c: __CYGWIN__ static link
workaround XXX
string/fmtls.c,fmttime.c: tmform() => tmfmt()
02-09-22 port/astconf.c: return values in fmtbuf() buffer instead of stack
port/mnt.c: don't set MNT_REMOTE for win32 ?:* paths
sfio/sfvscanf.c: _sfdscan() is library global (not static)
02-09-21 path/pathkey.c: add tool arg for mamake compatible hash

features/fcntl.c: handle iffe _hdr_lcl_* => _lcl_* change
02-09-15 comp/conf.sh: fix enum vs. macro test
cdt: kpv sync
02-09-11 ast.h,features/common: move _WIN32 macro init to features/common
features/common: enable __EXTERN__ and __DEFINE__ for _WIN32&!_UWIN
features/float: add -lm to _ast_*_nan_init tests
vmalloc: kpv sync with vmresizef => vmgetmem
features/iconv: must have both <iconv.h> and iconv_open()!
features/vmalloc: alloca test must compile *and* link
sfio/sfvscanf.c,sfstrtof.h: add flag arg to char get, fix NaN loop
02-09-10 vmalloc/vmhdr.h: enable getpagesize() and sbrk() prototypes
features/fcntl.c: enable mmap64() prototype
include/ast_windows.h:
windows.h wrapper with ast namespace workarounds
02-09-07 misc/mime.c: fix quoted value parse bug that ate the whole line
02-09-05 features/vmalloc: add free() to _std_malloc test
include/ast.h: NoF(x) now defines _DATA_x for !_BLD_DLL too
tm/tmlocale.c: { C POSIX en } == unix dadgummit
02-08-29 path/pathfind.c: initialize Dir_t.next=0
02-08-28 uwin/rint.c: update
features/libpath.sh: "bin" is now the default value
02-08-22 vmtrace.h: add for debugging
02-08-20 misc/magic.c: convert to use <cdt.h>
vmalloc/vmresizef.c: add for generic discipline resizef default
string/strelapsed.c: allow long time component names
02-08-19 misc/optget.c: add `.fp 5 CW' to --nroff output
string/(fmtfs|fmtuid|fmtgid|strgid|struid).c: convert to use <cdt.h>
include/dt.h,cdt/dtnew.c: add for dtopen() in specific vm region
02-08-13 comp/omitted.c: fix bzero logic for e.g. unixware.i386
include/ast.h: add fmtbase->fmtbasell; swap in 2003-09-01
02-08-12 regex/regnexec.c: fix REG_MINIMAL
REX_DOT mb bug
02-08-08 features/iconv: <ast_common.h> instead of <sys/types.h> <ast_common.h>
02-08-07 regex/regcomp.c: recognize anchors in BRE subexpressions
02-08-06 comp/iconv.c: handle win32 cpNNNN == windows-NNNN aliases
02-08-05 cdt/*: sync with kpv src
02-08-02 features/iconv: include sys/types.h for ast_types.h
02-08-01 misc/magic.c: magic file "." names the default
misc/magic.c: handle addr type (from irix string)
features/lib: move malloc tests to features/vmalloc
features/vmalloc: snarf tests from features/lib
vmalloc/*: sync with kpv src
comp/libc.c: dropped -- __libc_* intercepts moved to vmalloc/malloc.c
02-07-30 features/lib: handle __libc_malloc() in _std_malloc test
vmalloc/malloc.c: add gnu pvalloc()
features/vmalloc: fix alloca check
02-07-29 features/limits.c: handle netbsd guards
02-07-27 sfio/sfpoll.c: handle rw pipes

02-07-25 features/iconv: include ast_types.h for size_t in ast_iconv.h
02-07-18 apply LARGEFILE64 header prototype clash patches

 misc/optget.c: __EXTERN__ _opt_info_ instead of opt_info
02-07-17 ast_std.h: memzero() now defaults to memset() instead of bzero()
02-07-16 ast_std.h: add ast.env_serial
  misc/setenviron.c: increment ast.env_serial
  include/tm.h: tmset() now calls tminit() directly
  tm/tminit.c: check ast.env_serial for env change
  tm/tmfix.c: speed up for large values of tm_mday
02-07-15 comp/fnmatch.c: fix memory leak caused by missing regfree()
  comp/strstr.c: fix broken interpretation and implementation
  comp/iconv.c: intercept (but no-op) null to and from buffer pointers
02-06-27 ast_std.h: map _sysconf => _ast_sysconf for sun
02-06-26 cdt,sfio,vmalloc: kpv sync -- is this ever easy?
02-06-24 sfio: kpv sync, vfwscanf(),fputw() fix (wcslen(x)*sizeof(wchar_t)!!)
  misc/fts.c: fix symlink chdir() optimzation bug
02-06-11 sfio/sfwrite.c: string to file fix
  Makefile: __OBSOLETE__==20020101
02-06-01 regex/regcomp.c: REG_DELIMITED now consumes the delimiter
02-05-31 regex/reglib.h,regcomp.c,regnexec.c:
 null subexpression fixes
02-05-24 misc/fts.c: disable dir link counts in 3d
  misc/magic.c: fix "*(mkfile)" sh pattern to "*@(mkfile)"
02-05-20 regex.h,regex/regsubcomp.c,regex/regsubexec.c: add
  regex/regsub.c: deprecate
02-05-16 tm/tmfix.c: fix '60+n min/sec ago' bug for n min/sec after the hour
02-05-14 regex/regsub.c: fix (^|x) null match early termination bug
02-05-13 dir/dirlib.h: drop errant extern==__EXPORT__
  features/uwin: add uwin lib tests
  uwin/*.c: check features/uwin for stubs
  features/float: add nan representation generation
  sfio/sftable.h: used _ast_*_nan_init for huge values
02-05-09 misc/fts.c: fix virtual top to force ``child'' stat()
  features/common: define va_copy() only if not in <stdarg.h>
02-05-01 string/strtoip4.c: cisco inverted quad mask must have 4 parts
02-04-30 misc/magic.tab: fix pzip version check
02-04-19 string/strtoip4.c: handle cisco inverted quad mask n.n.n.n/i.i.i.i
02-04-18 misc/fts.c: add chdir() verification stat() optimizations

 path/pathkey.c: check PROBE_ATTRIBUTES for list of vars
02-04-12 port/astlicense.c: type=open tweak, fix author list spacing
02-04-11 regex/regcomp.c: check for pattern number overflow
02-04-05 tm/tmfmt.c: add %u
02-04-04 sfkeyprintf.c: fix %c numeric value
  path/pathpath.c: check plain path first -- duh
02-04-03 misc/fts.c: fix (FTS_PHYSICAL|FTS_NOSTAT) stat optimizations
  ftwalk.c: only clear FTW_DELAY if FTW_CHILDREN

ftwalk.h: add FTW_NSOK for FTW_DELAY
02-03-29 ast.h: drop strerror() prototype -- already in <ast_std.h>
features/stdio: check for _SFIO_H redundant _Sfstd* declarations
02-03-26 misc/glob.c: fix GLOB_LIST gl_flags values
02-03-24 port/mnt.c: update bsd fstype name and mount option logic
02-03-23 Makefile: add ast_wchar.h to the .check.hdr list (for mamake)
02-03-17 features/stdio: hack around g++ 3.* clashes
Makefile: add ast_nl_types.h to the .check.hdr list (for mamake)
string/strtoip4.c: fix validity check bug that only checked last part
02-03-14
misc/optget.c: fix --keys to not expand inline \f...\f
02-03-12 port/astlicense.c: add type=free
path/pathaccess.c: sibling ".." search ignores relative dirs
sfio/sfvscanf.c: sfstrtof get() must return 0 on eof
02-03-11 path/pathexists.c: check path by pairs checking {ENOTDIR,ENOENT}
02-02-14 features/float: copy local min/max macros to avoid printf roundoff
features/wchar: include <ast_common.h>, not <ast_std.h>
misc/magic.c: match[]=>matches[] to fix K&R match() macro conflict
include/vmalloc.h: include <stdlib.h> for !_PACKAGE_ast
uwin/mini.sym: add sprintf (now required by features/common)
regex/regnexec.c: truncate wide chars for <ctype.h> functions
Makefile: fix MAM ast_common.h sequencing bug by making it first
cdt/dthash.c: fix DT_DELETE memory leak (DT_DETACH typo)
cdt/dthash.c: fix DT_DELETE double free (dt->data->here typo)
regex/regcomp.c: fix recomb() to reject RE with backref
features/iffeio: explicitly generate stdio.lcl
stdio: add {fcloseall,f(get|put)s_unlocked,fmemopen,getdelim,getline}

tmmake,tmtime: allow negative time_t if native localtime/gmtime do
tmdate: allow years before 1969
fmtfmt: add
include/ast.h: add { PATH_TOUCH_CREATE PATH_TOUCH_VERBATIM }
Makefile: add std/*.h for std header iffe overrides
comp/iconv.c: fix non-C win32 sfreserve() loop
02-02-11 features/common: separate long long / long double tests
features/common: verify printf handles long long / long double
02-02-02 include/ast_std.h,sfio/sfhdr.h: drop _hdr_locale tests -- always on now
include/ast_std.h: trust _UWIN <unistd.h>
02-01-31 port/mnt.c: add aix options field
02-01-30 comp/strstr.c: add for ancient s5
stdio/_flsbuf.c: only on systems that transfer to native (e.g., uwin)
string/strtoi.h: cat min/max error return values
02-01-28 features/tty: add cf[gs]et[io]speed macros for <termio.h>
comp/rename.c: punt to (ancient) /usr/lib/mv_dir on EISDIR
02-01-24 sigcrit.c: fix SIGCLD!=SIGCHLD interrupt loop
sfvprintf.c: convert fast
io macros to functions for uts.390 cc
string/strtoi.h: drop #pragma prototyped for standalone sfio

sfdcsubstr.c: rename from sfdcsubstream.c for 14 char fs
02-01-22 execlp,execvp,execvpe,spawnlp,spawnvp,spawnvpe: fix __EXPORT__
spawnlp,spawnve,spawnvp,spawnvpe: handle ms mode arg -- barf
sftable.c: ifdef hacks for _WIN32&_ALPHA_ fp exception
_stdfun.c: add _UWIN&_ALPHA_ iob map
02-01-18 sfio/sfstrtof.h: drop #pragma prototyped for standalone sfio
02-01-17 features/hdr: don't include <stddef.h> after it doesn't check out!
02-01-16 misc/magic.c: add version type for YYYYMMDD or [a.][b.]c.d
misc/magic.c: recode mime %s parse -- sensible and no buffer overflow
02-01-15 misc/magic.tab,magicid.h: add generic binary magic number and header
02-01-12 tm/tmlocale.c: override win32 default date for {C,POSIX,en} locales
comp/omitted.c: fix cygwin workaround logic bugs
02-01-09 stdio/fseeko.c,ftello.c: add from UNIX98
02-01-08 comp/conf.sh: use $cc instead of cc
02-01-07 string/strlcat.c,string/strlcpy.c:
add bsd api
01-12-18 comp/conf.tab: fix LFS_CFLAGS default for sun _CS_LFS_CFLAGS botch
features/common: add hdr stdarg test
tm/tmdate.c: handle YYYY/MM/DD
01-12-10 misc/magic.tab: add generic 0x00010203 binary magic
01-12-03 path/pathprobe.c: return HOME relative path if readonly/non-suid fs
01-11-30 misc/optget.c: add simple cache for repeat offenders (like ksh read)
sfio/sfhdr.h: preserve errno across SFMMSEQON-SFMMSEQOFF
01-11-29 magic.tab: fix GIF version number listing
01-11-28 string/fmtbase.c: p!=0 => base always included in output
01-11-26 misc/fts.c: empty path is an error
01-11-14 misc/optget.c: fix --?+SECTION queries to include paragraphs
01-11-20 regex/regnexec.c: fix REG_MINIMAL character class match bug
01-11-19 features/lib: retain _lib_confstr for all solaris releases
01-11-16 comp/setlocale.c: fix !_lib_setlocale typo
01-10-31 regex/ucs_names.h: add string catenation to keep line length low
misc/fastfind.c: handle gnu slocate db read

misc/optget.c: add --?+SECTION queries
comp/fnmatch.h: add FNM_NOSYS
01-10-30 tm/tmdate.c: fix cron specs when both wday and mday are specified
01-10-20 misc/glob.c: fix bug that called \ trim() twice on same path
misc/glob.c: fix \ trim() bug that restored / to wrong position
string/fmtre.c: fix { ^ . $ } translations
misc/optget.c: use original string if translation fails -- duh
sfio/sfhdr.h: assume <errno.h> assigns proper atttibutes to errno
comp/regcmp.c: __ia64 workaround fixed by proper CC.DLL probe
comp/getdate.c: __ia64 workaround fixed by proper CC.DLL probe
features/lib: add lib getdate
01-10-18 features/lib: check for strtod static link collision
features/float: add another signed cast for old bsd cc
features/wchar: add <stdlib.h> <stdio.h> before <wchar.h> for old bsd
01-10-17 sfio/sfcvt.c: limit max precision to { FLT_DIG DBL_DIG LDBL_DIG }

sfio/sfcvt.c: fix %[aA] format to always have leading 0[xX]1.
sfio/sfvprintf.c: handle %C %lc %S %ls for wchar_t
args
sfio/sfvscanf.c: handle %C %lc %S %ls for wchar_t args
string/fmtmode.c: fix bug that omitted trailing '\0'
01-10-12 misc/optget.c: . => \&. for --??nroff
comp/wc.c: fix mbstate_t initialization typo
features/float: fix max integer / float loop termiation
features/float: fix LDBL_UINTMAX_MAX typo that did DBL_UINTMAX_MAX
01-10-11 include/sfio.h: fix _Sfstd* import/export
features/common: fix _UWIN __DYNAMIC__() definition
01-10-06 features/fcntl.c: { O_BINARY O_TEXT } default to 0
features/omitted: add for comp/omitted.c
sfio/sfopen.c: O_BINARY default for _WIN32&&!_UWIN
01-10-05 misc/glob.c: fix `\(x/*' GLOB_NOMATCH bug that returned `(x'
misc/optget.c: fix localization lookup that didn't drop doubled : ?]
01-10-04 comp/setlocale.c: handle sizeof(wchar_t)!=4 in debug locale
comp/conf.sh: handle sytems where _SC_* is both an enum and a macro
01-09-25 astconf: add LIBPREFIX
01-09-20 features/common: add __DYNAMIC__() for dll externs
01-09-19 cdt: kpv update

mb*() macros: update for ksh conversion, extend debug locale
01-09-16 tm/tmlocale.c: add compiled in defaults for C locale
misc/glob.c: add gl_nextdir callback for GLOB_COMPLETE
01-08-14 clarify _WIN32 vs. _UWIN vs. __CYGWIN__
tminit: fix standard & daylight initialization
01-09-11 pathnative.c: add for native fs representation
regex.h: fix regerror_t prototype
01-09-04 regex/regnexec.c: fix REG_ICASE for multi-char collating elements
tm/tmlocale.c: fix old ascii LC_TIME load
locale*: add new LC_* categories
comp/omitted.c: add CYGWIN workarounds
features/lib: add CYGWIN workarounds
01-08-11 features/common: some compilers have long long but no LL constants!
features/lib: add mmap64 implementation test (for linux.s390)
regex/regcomp.c: fix \ in [...] parse
setlocale: retain user locale spelling in setlocale() return value
features/limits.c: don't include ./limits.h -- duh
fmtesc: don't escape multibyte chars
tm/tmlocale.c: fix native C locale default
01-08-08
features/float: some compilers (msdev) forget long long vs. double
01-07-31 misc/optget.c: handle suboptions
01-07-27 cdt.h: add DTDISC()
01-07-17 iffeio.h: move to include for stdio bootstrap iffe workarounds
01-06-25 regex: perl extensions added and tested
01-06-21 misc/error: add ERROR_OPTIONS=prefix=string for message processing

01-06-15 string/chresc: only 2 hex digits max for \xxx
  regex/regsub: handle REG_SHELL ~(nnn) rhs backrefs
01-06-11 regex: handle embedded \0 in pattern and subject string
  regex: add (?nnn) for backrefs > 9
  comp/fnmatch: add FNM_LEADING_DIR for gnu compatibility
  features/float: _ast_flt_unsigned_max_t for bsd.i386 omission
01-06-06 misc/optget.c: add o option for old ps,ar,tar with optional leading -
  regex/regcomp.c: REG_LENIENT|REG_DELIMITED \<newline> => <newline>
  regex/regcomp.c: REG_LENIENT \000 => NUL
01-06-04 features/dirent: replace Makefile hack with iffe semi-hack
  regex/regnexec.c: negation must also check REG_SHELL_DOT
01-06-03
 sprintf.c: change buf size from SF_BUFSIZE to INT_MAX
01-05-31 glob: fix gl_fignore to ignore leading . by default
  features/lib: add botch_d_ino_dirent64 for linux botch
01-05-25 port/lc.tab: add a few missing language_territory's
01-05-23 string/chresc: \C[.collation-element.]
  fmtmatch,fmtre: update for <regex.h> syntax extensions
01-05-21 regex: add perl extensions, unicode names for collation elements
01-05-11 string/chresc: \e == \E == escape, \cX == control X, \x{..} == \x..
01-05-09 path/pathtemp.c: pathtemp(0,0,0,"/private",0) for mode S_IRUSR|S_IWUSR
  port/touch.c: handle utime(2) EPERM to fix bug that truncated
  regex: change REG_MINIMAL to avoid negation -- much faster now
01-05-08 *.h: add some off_t macro guards for suse linux
01-05-03 regcomp.c: optimize ((x)!)* to ((x)!)
  wchar: add <wchar.h> and stdio wchar routines
01-05-02 feaures/wchar: add <wchar.h> intercept, add stdio wchar functions
01-05-01 string/strtoi.h: signed strtoi accepts qualified unsigned constants
01-04-30
 comp/setlocale.c: fix code that relied on 2 simultaneous getenv()'s
  tm/tmlocale.c: check for UTF-8 encoded LC_TIME files
  misc/magic.tab: add utf-8 and utf-16 U+FEFF magic
01-04-26 features/common: some cc's have _ast_int8_t but not LL constants
01-04-24 features/lib: add _std_strtod for mac os X
01-04-23 ccode: add CC_sub for ms embedded EOF char on ebcdic -- no joke
01-04-20 iconv: handle ebcdic<=>utf
  mc.h,mc.c: add mcindex()
  ast_std.h: add AST_MESSAGE_SET
01-04-18 features/libpath.sh: fix mvs probe
  *: sundry mvs fixes
  glob: fix GLOB_NOCHECK to avoid stat() and properly trim patterns
01-04-01 strtod,strtold: add
  strtol,strtoul,strtoll,strtoull,strton,strtonl: handle locale & ERANGE
  sfvprintf,sfvscanf: handle locale decimal_point,thousands_sep
  sfvprintf,sfvscanf: handle %a,%A
  setlocale: add LC_NUMERIC decimal_point,thousands_sep init
  ast_std.h: __OPTIMIZE_SIZE__==1 to disable non-std __GNUC__ inlines
  pathexists: path cache to cut down pathpath() access(2)

calls
features/stdio: __FILE_TAG == _sfio_s for solaris
01-03-23 iconv: fix iconv_move buffer boundary bug that stopped at 1 block
01-03-19 glob: add GLOB_AUGMENTED
regex: REG_SHELL syntax error implies REG_LITERAL match
strto[ln][ll]: add overflow checks
01-03-17 locale: reimplemented to provide canonical locale namespace
locale: add LC_ALL=local for local system user default
tm.h: TM_*_3 => TM_*_ABBREV
tmfmt: handle standard E and O format modifiers
tmlocale: consult nl_langinfo() if defined
fmtquote("\"",1) => shell quote
01-03-08 regex: handle multibyte chars and collation classes
strmatch,strgrpmatch: now a wrapper on regex
ast_std.h: add mb*() multibyte and collation support
sfvscanf: handle locale decimal and thousand
proc*,system: handle ignored SIGCHLD
sfkeyprintf: handle %*C
01-03-06 locale: add locale data cache for efficient multiple locale switching
optget: fix LC_MESSAGES!=C --man bug
01-03-01 Makefile: HEADEROPT is not optional for win32.*

comp/syslog.h: comply with the de factos
optget(): fix \f...\f stack bug that referenced data after pop
01-02-27 *locale*: a batch of fixes for native LC_MESSAGE&LC_TIME hooks
01-02-22 pathprobe: reprobe test now checks probe.ini too
sfio_s.h: advertize public Sfio_t members with _ prefix
sfio.h,features/stdio: add <sfio_s.h> reference
sfhdr.h: map <sfio_s.h> _foo to foo
sfio.h: SF_APPEND=>SF_APPENDWR, SF_CLOSE=>SF_CLOSING
01-02-14 comp/conf.sh: probe <unistd.h> for _(CS|PC|SC)_* getconf symbols
stdio/*: update for uwin stdio.dll binary compatibility
sfread: finally fixed premature pipe read EOF bug
fmtscale: format tenths for number > 0 && number < 10
01-02-09 _sfmode(),_sftype(),_Sfextern: UWIN binary stdio compatibility exports
01-02-08 sfgetm,sfputm,_sfputm: fix max clash with k&r max() macro
setlocale: undef valid for sun4 k&r valid() macro
01-02-07 catopen.c: don't do native catopen for the debug locale
01-02-06 sfraise.c: add SF_FINAL check to avoid (posibly)
freed disciplines
01-01-01 features/common: fix uwin __DEFINE__
sftable: initialize decimal and thousand
magic.tab: add corel wordperfect document
syslog: add LOG_LEVEL, add '\n' only if needed
include/tm.h: #undef daylight for _WIN32
sfio.h: add _SF_APPEND and _SF_CLOSE for native namespace incursion
ast_std.h: add AST_LC_multibyte for MB_CUR_MAX>1
setlocale: set AST_LC_multibyte

strmatch: check AST_LC_multibyte
features/limits.c: add _BITS_POSIX1_LIM_H guard for linux
features/libpath.sh: fix for aix LIBPATH
procopen,procclose: block SIGCHLD if PROC_FOREGROUND (e.g., system(3))
optget.c: add enumerated option argument values
optget.c: add <!--INTERNAL--> for private --html
optget.c: fix memory leak that hit shell builtins hard
sfio: drop sfread small chunk logic
00-12-25 mnt.c: handle " and ' quoting for fstab
sftmp.c: let pathtemp() open the fd O_EXCL
00-12-15 conf.sh: add -v for verbose trace
features/(limits|unistd).c: no FEATURE/types because
of _POSIX_SOURCE
features/time: add default for CLOCKS_PER_SEC
features/lib: std_malloc now handles NeXT
00-12-13 strton: recognize qualifier only if preceded by a digit
features/lib: change return in vfork() test to exit() for linux sparc
fmtquote: fix $'...' quote logic
00-12-11 tmdate: fix cron format bug that mishandled months
00-12-01 optget: handle $Id: ... $ in --?-version
features/fcntl.c: fix _STDPP_ mmap munmap
00-11-27 magic: drop dup sfclose() in load()
optget: handle error_info.id==0
00-11-22 features/stdio: add _FILEDEFED for sol9.sun4
strton,stronll: handle [u|U][l|L][ll|LL] qualifiers
00-10-31 tmdate: add TM_DATESTYLE and mmddHHMM[cc]yy
astlicense.c: #include <hashkey.h> MAM workaround
astlicense.c: check for non-empty CONTRIBUTORS
00-10-26 features/stdio: add _FILE and __FILE for gnu
misc/stk.c: fix stack pointer check off-by-one (dgk does it too!)
00-10-23 syslog.h: sync with bsd values
00-10-18 _STUB_* now functions instead of common symbols
all
extern data declared with definition to eliminate common symbols
fastfind: add mac/bsd /var/db/locate.database
00-10-17 features/lib: add apple osX (darwin.ppc) workarounds
00-10-12 add: fmtbuf(), fmtclock(), fmtip4(), strtoip4()
fmt*() now use fmtbuf() for tmp fmt buf allocation
00-10-05 regex: add REG_DISCIPLINE and regdisc_t for alloc/error disc
00-09-29 features/lib: pipe_rw==0 for sgi: boot rw == bin incompatibility
00-09-21 astlicense: handle \' and \" in license values
00-09-20 sfwrite: fix write() error in sfprintf() loop
00-08-11 hdr,vmhdr.h: check/hide { getpagesize sbrk } prototypes
astlicense: add noncommercial
00-07-31 fflush: don't seek on pipes
sfresize: add
setlocale: fix bad newof() call
00-06-01 strmatch: initialize match.current.beg[0] to avoid dump at line 670

sfio/stdio: a few more errno tweaks
astquery: sfstdin/sfstderr by default
00-05-26 sfmode: errno=EBADF for invalid stream use
00-05-22 rewind: fix for xopen test
00-05-18 mcfind: returns absolute
path
00-05-16 optget: --keys must catch \f...\f too
translate,mc: errno cleanup
00-05-09 magic: add netbsd binary magic
fts: PATH_RESOLVE!=logical => FTS_SEEDOTDIR
ftwflags: call fts_flags()
astconf: astconf(0,0,0) re-syncs with _AST_FEATURES
00-05-08 optget: --usage & --keys for last -catalog group only
00-05-02 iconv.c: add; use codes[] in ccmapid() and ccmapname(); "" for native
00-05-01 pathtmp: copy env values (libshell or putenv may change)
00-04-01 optget: drop bar from [-foo?bar] for --??keys
sfvscanf: add %X -- duh
features/common: fix va_listval() for power pc
findopen: fix FIND_GENERATE codes file search
magic: add ERROR_translate() and msgcat.key
tmlocale: add for LC_TIME locale info
tmlex: check tm_info.format and tm_data.format
tmfix: fix for tm_wday special case (via nl_langinfo on LC_TIME fields)
strftime: fix for nl_langinfo special case
ast_std.h: provide LC_* defauls if not defined
sfnew: check ${_AST_sfio_bufsize} -- don't tell kpv
catopen,nl_types.h:
add intercept to mc* routines
magic.tab: add ast message catalog
strerror: add _ast_strerror intercept with ERROR_translate("errno")
fmtquote: escapes >0177 only if (flags&2)
00-03-17 feof: stdio macro functions only for _UWIN
optget: proper ERROR_translate() calls
astgetconf: add for thread safe error message control
astlicense: fix type=special but with non-null notice
errorx: add for ERROR_translate() support
ERROR_translate: add locale id args for alternate dictionary
option.h: move _OPT_PRIVATE_ to pointer to avoid dll size mismatch
ftwalk: fix FTW_CHILDREN bug that hit top level non-dirs twice
translate.c: default error_info.translate
astconf: fix dup loop thrash that never returns, add _AST_VERSION
00-03-10 ast_std.h: do _LARGEFILE_SOURCE initialization before std headers
fmtquote: handle $'...' quotes
00-03-07 optget: fix numeric option support test
sfkeyprintf: add %q for '...' quoting with ansi escapes
00-03-06 features/stdio: fix
_sfflsbuf prototype (dingold@gte.net)
00-02-14 pathtmp: fix pid cache bug that sometimes repeated after ~10 attempts

optget: "..." attribute quote
pathfind: eliminate *: prefix in lib, not type
proc: PROC_FOREGROUND for system(3) semantics (wait status return)
pathtmp: fix mktemp() logic
fts: fix FTS_NOSEEDOTDIR bug that botched ./* in top list
include/ast/prototyped.h includes include/prototyped.h
pathpath: fix strdup(0) bug
optget: --html <foo@bar> => ...mailto:foo@bar...
sscanf: fix sfsscanf => sfvsscanf typo
magic.tab: strengthen tar recognition
00-02-08 conf.sh: fix ifdef for systems that think sysconf(FOO) is const
00-02-04 glob: fix globlist_t.gl_flags
00-02-02 vm*: add NoF() for data only files
00-01-27 fts: fix top level .==.. statp bug (thanks to dr. ek)
00-01-25 conf.tab: fix LFS*_*LAGS typo
00-01-24 astlicense: handle type=verbose, license.notice, author=*
00-01-11 pathprobe: generate info for first probe script on PATH - duh
ast.h: add NoF(x) for files
that define no functions
tmpfile: fix implementation
global change for string ERROR_translate() dictionary names
optget: fix new way but no long names off by one
optget: handle [--dictionary?name]
99-11-19 comp/conf.sh: `expr length XXX` is not universal
drop sfstdio; stdio via functions everywhere
drop Makefile conditionals (and follow our own advice for once)
sfio: new stream after atexit() bug fix
tm: Tm_zone_t.daylight=0 for standard time within zone
stdio: fopen => _ast_fopen: only way short of binary compatibility
Makefile: atmain.C falls back to atmain.c
optget: add --keys, s<section> option
stdio: _UWIN check for foreign stdio
99-11-11 astlicense: add
99-10-31 glob: fix regexec pattern; add PATH_ATTRIBUTES case check
pathpath: path==0 means malloc space
99-10-22 tmfmt: %C=2-digit-century, %k=date(1), %y=2-digit-year-in-century
99-10-18 fastfind: expanded default db lookup
99-08-11 magic: fix off by one registry malloc
features/fs: add __RENAME checks
for stat familiy (netbsd)
features/fs: major()/minor() fixes for s5
features/libpath.sh: netbsd fix -- ld.so not in std places
misc/fastfind: fix codes path generation bug
optget: beef up --?* description, fix <TR>...</TR> nesting
pathprobe: check for override (writable key file) first
features/time: int tmtimeofday(struct timeval*);
optget: fix opt_info.num, even if opt_info.arg!=0
fts: FTS_PHYSICAL => FTS_SEEDOTDIR, add FTS_CHOP

fastfind: init dir tab with logical and physical name
glob: add gnu GLOB_ALTDIRFUNC
99-07-17 sfio: kpv update and sfhdr.h sync!
99-06-24 stdio: fix fflush() to ignore sfseek(0) return value
99-06-23 magic: '\r' is text not control to placate m$
99-06-08 stdio: fix fseek,ftell semantics
uwin stdio: fflush() => _doflsh() to avoid __cplusplus clash
getopt: call liberror() to avoid error() conflict
tmfmt,tmscan: %N zone type (nation code), %z zone minutes west offset
tmfmt: - no pad _ space pad 0 leading 0 pad
99-05-28 magic: fix 'x'
== '*' for any number, magic.tab tweaks
features/lib: verify that stat64 really works
99-05-21 tm*: add TM_WINDOW==69 for consistent century windowing guard year
99-05-18 tmtime: add century leap year calc anticipating unsigned time_t
99-05-17 sfkeyprintf: handle %o and %x!!
99-05-09 pathprobe: $HOME/.probe if not suid and st_uid!=geteuid()
99-04-28 magic,magic.tab: add registry()
99-04-24 regcomp: fix ksh pattern +! parse
regfatalpat: add
optget: make : ?] double escape consistent in all contexts
99-04-01 features: drop iffeio.h and stdio.h when only printf() used
regex: fix stats() .l and .k count
fmtquote: added; most general fmtesc() form
99-03-22 fmtesc.c,ast.h: add fmtnesq()
optget: --?x works for -x option flag
99-03-17 features/limits.c: workaround solaris __EXTENSIONS__ _timespec bug
workaround limits.h circular prereq with ignore stdio.h
sfvprintf: %04e left-pad zero fixed
99-03-03 fts: uncle already: add FTS_SEEDOTDIR to retain leading ./
regex: REG_MULTIPLE,
BM for fixed string alternation
optget: embedded `-' optional in long options, prefix={0,1,2}
99-02-14 fastfind: fix dir format bug that emitted wrong paths
astconf: fix redef off by one bug
99-02-11 pathcanon(): don't cache astconf("PATH_LEADING_SLASHES", NiL, NiL)
99-01-23 optget: move <old_opt.h> back into <option.h>, no open-close
optget: add "[index:long-name:description]" for --long-name
comp/gross: add weak __libc_attr for irix < 6.5 compatibility
features/limits.c: tweak the guards again
99-01-11 fastfind: handle old format count byte order
magic.tab: fix elf to use real phdr offset
magic.c,magic.tab: fix | to act like switch/case
comp/fross.c,features/hack: for gross hacks
features/stdio: avoid sfio namespace pollution
98-12-25 tmdate: yyyy.mm.dd
pathprobe: fix procrun() cmd path bug
fmtesq: add

features/common: win32.alpha va_list
magic: add pc alpha object
98-11-11 strmatch: add STR_ICASE
pathprobe: punt to $HOME/.probe/<key+HOSTTYPE> if not
S_ISUID
tmzone,tmdate: handle +-minutes, nn/MMM/yyyy
stropt: fix nested quote pop
tmfmt: add %K => %Y-%m-%d/%H:%M:%S
sfio/stdio: fix fseek() SF_PUBLIC omissions
fmtesc: catch '\\' (duh)
vmalloc: vmbest round bug fix
98-11-01 fts.c: no pathcanon() if (fts_flags & FTS_PHYSICAL)
98-10-01 features/stdio prototype fixes
optget: strton() instead of strtol() for #
98-09-22 regcomp: add REG_DELIMITED and REG_ESCAPE delimited re support
98-09-15 fix _LARGEFILE64_SOURCE stuff
ast_std.h: provide mmap() prototype
98-08-11 fix sfpopen() to ignore SIGPIPE by ignoresig() for sfio but not stdio
fix procopen() to ignore SIGPIPE by ignoresig() for PROC_IGNORE
sfio sfpopen/popen update
magic.src: fix ustar entry
98-07-17 fix ftwalk() short by one malloc()
add fts_notify()
98-06-25 sfdcmore,sfdcprefix: add
98-06-19 tokscan: add %f %g
98-06-01 disc/sf*.c: memset(0) after disc malloc()
98-05-11 strelapsed: y==Y
fts: pathcanon() top list
98-04-01 error: error_info.time for all msgs,
just after cmd id
error: no sfsync(sfstdin)
sfio: sfpool, Sffmt_t update
magic.tab: sgi core dumps -- why aren't these elf?
stropt: (v+n) for unknown option is option value if n!=0
procopen: fix setsid() for spawnveg() only
98-03-19 malloc: add realloc foreign region check
sfdisc.h: rename to match kpv disciplines
fastfind: fix strcasecmp/strcmp directory prefix mixup
98-03-17 features/fcntl.c,pathtmp,sftmp: add O_TEMPORARY
98-03-01 pathcanon: fix PATH_LEADING_SLASHES to stat() both slashes
pathcanon: add PATH_VERIFIED
tmdate: add skip[] to expand separator char set
fastfind: FIND_OLD for old 7 bit db, FIND_TYPE for new 8 bit typed db
fastfind: default generates gnu LOCATE02 8 bit db
magic: handle %s in mime description
cdt: kpv update
sfio: kpv update
stdio: fpos64_t fseek64(), ftell64(), fgetpos64(), fsetpos64()

stdio: fseek() => sfseek(SF_PUBLIC) to avoid locking
fts: initialize parent stat[bp] from top level *after* statf done
astmath: add -lm
requirement test
*: Astlong_t => _ast_*_t
regex: simplify regcollate() (from doug)
tmtime: preserve Tm_t*tm when calling tminit()
astconf: add readonly PATH_ATTRIBUTES=[cirw]
98-02-14 fastfind: add FIND_ICASE to ignore case
tmdate,tmgoff: handle (+|-)hh[[:]mm[[:]ss]] absolute timezone
tmdate: `<n> <part>' now assumes `next <n> <part>' instead of `this'
tmfix: fix leap year bug that forgot to add 1900
proc: add PROC_ZOMBIE
98-02-06 strmatch() char class range bug fix
regex char class range bug fix
98-01-23 _WIN32: changed the #if logic again to accomodate _GNUC_
mnt: grab the mount options too
ast_std.h: hide getopt,getsubopt from stdlib.h
features/limits.c: add gnu guard macros to avoid limits.h recursion
features/mode.c: include "limits.h" instead of "FEATURE/limits.lcl"
98-01-11 sfio.h: use Astlong_t, move Sfio_t Sfdisc_t typedef to top for stdio.h
sfhdr.h: #undef SETLOCAL for hpux
sfvprintf,sfvscanf: %I*x for sizeof(int_arg)
handle ftruncate64 and truncate64

dtopen.c: __hppa dll needs Dtset Dtlist Dttree refs here
97-12-18 fmtnum: add
97-12-11 magic: handle sgi 64 bit core dumps
97-12-07 pathtmp: add override for TMPPATH,TMPDIR and cycling
97-11-11 tm: handle 0 return from gmtime(),localtime() (dos negative time_t)
features/stdio: fix fflush() macro to do physical sync
97-10-31 astconf PATH_RESOLVE is logical if 3d&&!std, metaphysical otherwise
magic: fix #! mime bug
tm: tmtime() now calls tmfix() and adjusts tm_isdst too=>mtime() works
97-10-11 dllfind,dlfcn: move to separate -ldll so -last can link static, duh
Makefile,state.c: move forced header generation state.c => Makefile
sfio: update including SF_WHOLE
97-10-01 sfdostext: add \r\n => \n sfio discipline
stropt: NiL table => p=name for all name=value
97-08-11 pathtmp: check pid to note forks
procopen: FD_CLOEXEC rfd && wfd
fts: fts_close() after fts_children() with no fts_read() now works
97-07-17 error: sfsync(sfstdin,sfstdout,sfstderr) instead of sfsync(NiL)

_sfcvinit: add sfio internal interface to base conversion tables
strton: use _Sfcv* base conversion tables instead of sfsscanf()
sfvscanf: use _Sfcv* base conversion tables
mime: x- permutations now matched if exact fails

mime: original- stripped from content-* headers
tmdate: add yyyy-jjj, yyyy-mm-dd
dllfind: add
ccmapid: fix buf copy loop limit
ccmapname,ccmapcpy: add
sfstrtmp: add
97-05-09 streval: fix up casts for pseudo-ansi cc
features/types: use _ast_int_8 vars to verify support
string/modedata: check for mvs.390 S_IFMT
include/ast(_std).h: add #define __FILE_typedef
magic: add ccode text check
include/ftwalk.h: FTW_PATH=>FTS_NOCHDIR to avoid FTS_AGAIN (duh)
fts: clear status for FTS_AGAIN (fixes rm -r bug)
mnt: add mvs openedition w_getmntent()
sfhdr: _hdr_float && <float.h> for correct MAXDOUBLE
vmalloc/vmbest: if _std_malloc then use malloc()/free() not sbrk()
remove: check _std_remove
procopen: handle pio[{0,1}]=={0,1}
setenviron,features/uinstd:
test for mvs.390 dll environ hacks
96-12-25 <sfio_p.h> -> <ast_common.h>
__EXTERN__(type,object)
__DEFINE__(type,object,value)
magic: check strings in !CC_NATIVE code set too
system: cmd==0 means check for shell access (xopen)
sfhdr.h: fix sfrsrv prototype
add __libc_malloc etc for gnu/linux
astconf(NiL,path,name) == astconf(name,path,NiL) + no liberror
fts_open: if toplist() stat fails return 0
ftwalk: handle fts_open()==0 via one phony userf() call
sfmode: S_ISFIFO default is SF_SHARE=0
features/lib: _WIN32 _lib_vfork=1 by default
unsigned<0 comparison and other fixes via sgi.mips4 cc
stk.c: use <align.h> ALIGN_BOUND for stkalloc()
features/lib,vfork: uwin fix
ast_std.h: fix strto[u]ll prototypes with features/types _ast_int_8
getsubopt: add for xopen 4.2 compatibility
drop function __IMPORT__
magic: more magic
change #define FILE from Sfio_t to struct _sfio_s
state.c: add generated includes that may be hit by std for MAM

bytesex: forgot about sizeof(long)=>7; could we fix the name too?
vmalloc.h: fix vmnewof() definition
sfio.h,stdio.h,ast_common.h: pollution cleanup
magic.c: add | op for switch
Makefile: stdio.h was on both HEADERSRC and HEADERGEN -- don't do that
drop pp:notice to get <sfio.h> ... <ast.h> to work

regex: add [[:<:]]==\< and [[:>:]]==\> for bsd compat
mime.c: ignore X-* headers while scanning for Content-*
magic.c: check for negative indirect offsets
magic.tab: fix dos entry that generated negative indirect offsets
vmalloc.h: add vmstrdup() prototype
hash.h: add hashgetbucket() macro
magic.c: MAGIFILE is now a : file list
mnt.c: another 4.4 bsd fix -- users must include <sys/crap.h>
common: fix _WIN32 chicken&egg with va_copy
sfio: forgot to set f->val along with _Sfi in sfexcept()
Makefile: add mini target for uwin libmini.a
sfcvt.c: workaround for flaky long double optimizers
features/common: fix to work with va_list==void*
regexec.c: fix REG_STARTEND
subexpression offsets
strmatch.c: don't forget <wctype.h>
regrexec.c: fix REG_INVERT end boundary bug that missed last record
astconf.c: notify(0,0,"a=b") called for each setenviron("a=b")
pathcanon.c: check astconf(PATH_LEADING_SLASHES) to preserve //*
96-11-28 _LARGEFILE64_SOURCE by default if possible: NOTE: assumes xopen
regerror: fix for xopen
getopt: fix for xopen
magic: add ciao virtual database
astconf: posix/strict/xopen implies "standard" conformance
fs3d.h: hide mount prototype
ast_std.h,mnt.c,features/fs: ncr port tweaks
96-10-31 version 5.0
add strtoll() strtoull()
sfkeyprintf: upgrade to int_max args
ast.h: add ssizeof() to work around unsigned botch
conf.sh: add shell actions to conf.tab
_DLL*: drop for _BLD_<lib> + __EXPORT__ + __IMPORT__
sfio,cdt,vmalloc: kpv update
96-10-11 <ccode.h>: add character code map support
procclose: return shell style exit status
features/fs: pun statvfs.f_basetype to statvfs.f_reserved7 for mvs

uwin: add subdir for uwin additions
ast_std.h: swab() is from <stdlib.h>
sfio.h: <ast_std.h> if _PACKAGE_ast
magic.tab: add mips[1-4], 64-bit
port tweaks for sol.sun4 and sun4
96-09-06 strerror: add
fmterror: uses strerror
str*search: use sfiso646() order
strpsearch: add
magic: add Magic_t.mime mime type return for magictype()
mime.h: add

strton: use sfsscanf()
strperm: factor in umask() if no who
pathtmp: add TMPPATH check
libevent: add
magic: add discipline to magicopen()
mime: add discipline to mimeopen()
96-08-31 regex: fix BM fail table generator
96-08-11 mntread: fix mnt.type for SCO variant
conf.tab: add SCO KERNEL_* sysconf() vars
fastfind: add findwrite(), fix findread() FF_OFF omission
ftwalk: reimplement on top of fts
fnmatch,re_comp,regexp: reimplement on top of regex
basename,dirname,fmtmsg,fts,ftw,getdate,getsubopt,glob: add
hsearch,nftw,realpath,strftime,strptime,swab,tempnam: add
tsearch,wordexp: add
getcwd: cache last path
for easy test
96-07-17 error: sfsync(NiL) ... write ... sfsync(sfstderr)
astconf: handle readonly *(DEV|DIR) vars
96-04-01 swapop: fix stupid return value bug
features/int.c: fix int_swap generation bug
regnexec,regrexec: fix unsigned underflow init error
ls.h: fix iblocks() to be in units of LS_BLOCKSIZE
96-02-29 magic: space before function is definition with no call
hash: drop hash_info from public interface
hash: OBSOLETE hashlast()
hash: add Hash_root_t.Hash_last_t to public interface
add strsearch() and strnsearch() to complement strlook()
add hashkey.h for keyword->long hash
pathpath: pathpath(0,0,"",0) disables $0 $_ $PWD relative search
sfio: sfstrtod+sfhdr update
regex: fix REG_LENIENT to map BRE \[+?|] to ERE [+?|]
change _std_malloc iffe test so it doesn't hang on alpha
sfhdr.h: features/sfio generates _lib_cvt instead of _i386_cvt
ast_hdr.h: add va_copy(a,b) to copy va_list b to a
getopt: fix stupid getopt() -> optget() bug
sfvprintf: %h?
now downcasts
regex: handle strto?l() errno in regcomp()
sfstrtod: _Sfstrtod_already_defined -> _STUB_sfstrtod
ast_std.h: hide valloc() and ignore <strings.h>
sfkeyprintf: pass phony va_list for '2'
regex: change HIT var type from int to size_t in special()
ast.h: add EXIT_STATUS(x) to convert wait() status to sh exit status
96-02-14 regex: add _ to \<...\> isalnum test
regex: fix BM inner loop breakout
features/types: size_t is signed on some systems! => _ast_size_t
sfio: sfrd discipline peek optimization

vmalloc: vmalloc.h malloc family macro upgrade
tokopen: fix newline bug for non-restore open
sfio: no inline for gcc until it emits for -g too
96-02-12 sfio: internal upgrade
96-02-09 regex: Boyer-Moore boundary fix
vmalloc: snarf latest
96-02-06 regex: add regrecord() and regrexec() for Boyer-Moore record filtering
regex: rearrange regnexec() args to match buffer,count arg style
96-01-31 stk: add STK_NULL to stk.h and stk.c
regex: privatize regex.h and
fix min re length computation
workaround lazy strdup() implementations in features/lib _std_malloc
fix stkclose() to free(stream) -- purify missed because of sfio links
unused var cleanup
port/mnt.c must include <ls.h> to get <ast_fs.h>
add SF_FINAL to sfio and stk
sfio reads now on natural block boundaries
add #!!! <level> <message> !!! to tokline()
add REX_BM pre-filter to regcomp/regnexec
96-01-22 add regcomp env.paren overflow checks
96-01-11 add Doug McIlroy's regex (converted to C from C++ by gsf)
AT&T Research now
sfgetr optimization
regex buglets
96-01-05 tweak magic.tab for win32
95-12-25 add !(...) -> (...)! to fmtre()
nt tweaks -- functions with no header proto must be defined extern
95-11-24 version 4.1
add mnt.h mntopen mntread mntclose
convert fmtfs to mnt.h
add RE_LEFTANCHOR and RE_RIGHTANCHOR
gcc inlines must also have global library function instantiation!
add hashview()
fix strtape() internal buffer flow
fix mntread() fs/dir transposition
for uts mnttab
95-10-31 change features/unistd.c includes to break limits-param cycle
add cdt from kpv
sfio snarf from kpv
add [ht]search for _WIN32
95-10-11 clarify PARANOID pathcheck() warning
fix procopen() LIB_SPAWN environ bug with setenviron() cache
fix setenviron() bug that forgot to reset environ if == 0
add %Z '\0' output format to sfkeyprintf()
sfio snarf for sfvprintf fix
allow multiple hashscan() with scope caveat
add comp/fakelink.h to synthesize a few symlink text patterns
add !<xxx> magic to misc/magic.tab

add FTW_TOP to inhibit recursion (for ftw side effects on top level)
add memfatal() common malloc fatal exception message
add dos \r\n test to misc/magic.c/cklang()
sftmp() O_EXCL+random to avoid collisions
pathtemp() uses sftmp() randomizing
features/fs uses SF_APPENDWR
sftmp() uses pathtemp() -- don't worry, its not circular
a few more _WIN32 compatibility additions
realloc fixed to use VM_RSCOPY|VM_RSMOVE instead of obsolete
1
add hashlook(tab, oldname, HASH_RENAME, newname)
a few more tweaks to satisfy port warnings
add _SFIO_INLINE_PRIVATE to provide real function too
fix <dirent.h> installation test
oops object / shared library compat with _sfgetl2 _sfgetu2
95-09-11 add getopt() compatibility
add fstat,lstat,mknod,stat fixes for _x versions in sys/stat.h
add getconf CONFORMANCE - posix for things that aren't ast default
sfio_t.h: #ifndef _SFIO_H #include "sfio.h" #endif
snarf vmalloc from kpv
95-08-11 fix malloc bug in magic
update linux and bsd 386 magic entries
error_info.auxilliary returns new level, |=ERROR_OUTPUT if msg done
drop fnmatch from strmatch for sparc (solaris) until it collates
95-07-17 fix port/astconf universe initialization
fix misc/optget opt_info.nopt initialization
drop tmset() TZ=... because it only worked when TZ=... was ignored
95-05-09 mongo <ast.h> namespace cleanup
drop > 2 year old obsolete interfaces
sfvprintf.c fix for (char:8 short:16
int:32 long:64) architectures
TMP_MAX back into conf.tab
pathbin() and pathshell() now use astconf()
fix pathtemp() to not cache getenv("TMPDIR")
fix ftwalk() metaphysical to handle non-dirs too
initialize *_info = { 0 }; for ancient ld semantics (NeXT)
fix magic() to do vmfree()
astconf(X_OK) must prefix lines with "getconf"
use <wchar.h> and wctype in strmatch() if available
_lib_utime_now checks utime(path,0)
_lib_poll_notimer checks poll(x,0,timeout)
add another _lib_utime_now check to port/touch.c
fix dd_buf cast in dir/opendir.c
split getconf.h into conftab.h and conftab.c for :READONLY:
use mbtowc() only if MB_LEN_MAX>1
sfio char* -> Void_t* cleanup
handle old syntax in misc/magic.c
sigdata.c holds readonly signal strings

pathcheck() does AT&T checks for tools matching PARANOID - yuk
unused var cleanup
deprecate hash_info in favor of hashlast()
fix bad conf.sh ksh integer interactions
dll cleanup
magic.c falls back to malloc for now

add environ to <ast.h> -- C library global data syms are *RESERVED*
sfhdr.h memccpy(1,2,3,size_t) prototype
95-04-01 version 4.0
convert to vmalloc
allow sigcritical() nesting mismatch to work around vfork() bug
add strexpr() primitive for streval() with user handle (like ftwalk)
add <magic.h> and magic.c file command magic interface
update magic mail message entry
fix keyprintf() invisible char count nesting bug
add sfstrnew(SF_READ|SF_WRITE) for alternate sfstropen() modes
sfstrnew(SF_READ) but reading requires sfseek(), sfreserve()
add conf.tab and conf.sh to nail C/POSIX limits/unistd macros
add getconf() string interface to *conf*
_DLL_INTERMEDIATE_DATA for systems that require indirect globals
_DLL for building shared libraries with _DLL_INTERMEDIATE_DATA
vecfile() restricted to S_ISREG()
add spawnveg() for job control
convert procopen() PROC_PGRP(id) to spawnveg()
fmterror() returns error text given errno (strerror() does same)
fmtsignal()
returns signal text given errno (strsignal() does same)
{sig_name,sig_text,SIG_MAX} -> sig_info.{name,text,sigmax}
liberror("",...) omits [%s library] prefix
update features/signal.c table
add vmdisc() and change vmnewof() to use vmresize()
fix conf.sh to allow refs to previously defined limits
fix undefined entries in getconf()
magic data in magic.tab
fix stropt() pointer cast
vmalloc() exception handler replaces nomalloc()
merge sigdata.c into fmtsignal.c -- sun link needs function w/ data!
sftmp() bug fix
drop local <unistd.h> even with _POSIX_SOURCE
fix vmstrdup() macro arg miscount
fix conf.sh to handle enum'd symbolic constants in unistd.h
drop malloc() et.al. prototypes from vmalloc.h
fix sfvprintf() %d argument reference
add OSF/1 AES symbol(s) to conf.tab
determine standards prefix from conf.tab
add _CS_SHELL to conf.tab
getpath() default is confstr(_CS_PATH)

getshell() default is confstr(_CS_SHELL)
unify keyprintf user function args
(should have learned by now!)
add quad type to magic
add astfeature() to unify universe style dynamic features
add ftwflags() to determine FTW_* flags from astfeature()
95-03-11 fix stropt() to not modify its *const* arg
handle '"\ quotes and chresc() in stropt() values
, treated like :space: between stropt() options
fix procopen() fd dup to ignore self-dups
add library id[] to misc/state.c
add ftwalk(FTW_METAPHYSICAL) for posix -H
sfvprintf() now handles balanced () in %()
add tmfmt() with buffer size check to replace tmform()
add fmttime() calling tmfmt() to fit fmt*() mold
add <keyprintf.h> and keyprintf() to support %(...)? in commands
add Hash_table_t for size==0 in stropt()
add EXTTYPE extended header to tar.h
95-02-14 sfmove() buffer size overflow fix
add _SFSTDIO_H to sfio.h
rename setenv() to setenviron() -- posix finally decided
rename <option.h> opt_* to opt_info.*
update features/unistd.c for _SC_* and _PC_* posix additions
95-01-19 (char*)uchar
cast in fmtesc()
fix hash bucket memory leak in hashlook() [via John Mocenigo]
update strings/strtape()
fix optget()/optjoin() to handle leading +
add ALIGN_ prefix to <align.h> identifiers
95-01-11 change tm/*.c tmset(0) to tmset(tm_info.zone) to keep user setting
fix tmform() %Z null pointer dereference
95-01-01 add this RELEASE file
fix strperm() to properly handle "644 file"
fix tokline() to return last '\0' terminated line in string
fix tokscan() to properly handle \\n splice
add fmtesc() to complement stresc()
add LS_NUMBER to fmtls()
drop spurious optusage() ' '

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/RELEASE
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*               Glenn Fowler <gsf@research.att.com>           *
*                David Korn <dgk@research.att.com>            *
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/revlib.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/lib.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/rev.h
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/fts_fix.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/wclib.c
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```
/*
* original code
*
*   James A. Woods, Informatics General Corporation,
* NASA Ames Research Center, 6/81.
* Usenix ;login:, February/March, 1983, p. 8.
*
* discipline/method interface
*
* Glenn Fowler
* AT&T Research
* modified from the original BSD source
```

```
*
* 'fastfind' scans a file list for the full pathname of a file
* given only a piece of the name.  The list is processed with
* with "front-compression" and bigram coding.  Front compression reduces
* space by a factor of 4-5, bigram coding by a further 20-25%.
*
* there are 4 methods:
*
* FF_old original with 7 bit bigram encoding (no magic)
* FF_gnu 8 bit clean front compression (FF_gnu_magic)
* FF_dir FF_gnu with sfgetl/sfputl and trailing / on dirs (FF_dir_magic)
* FF_typ FF_dir with (mime) types (FF_typ_magic)
*
* the bigram encoding steals the eighth bit (that's why its FF_old)
* maybe one day we'll limit it to readonly:
*
* 0-2*FF_OFF
 likeliest differential counts + offset to make nonnegative
* FF_ESC  4 byte big-endian out-of-range count+FF_OFF follows
* FF_MIN-FF_MAX ascii residue
* >=FF_MAX  bigram codes
*
* a two-tiered string search technique is employed
*
* a metacharacter-free subpattern and partial pathname is matched
* backwards to avoid full expansion of the pathname list
*
* then the actual shell glob-style regular expression (if in this form)
* is matched against the candidate pathnames using the slower regexec()
*
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/rcmd.c
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*                                                      *
*            Glenn Fowler <gsf@research.att.com>               *
*             David Korn <dgk@research.att.com>                *
*                                                      *
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcmd/pathchk.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/tdump.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/timeout.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/options.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/argnod.h

* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/pmain.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/fcin.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/suid_exec.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/shcomp.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/trestore.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/test.h
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/national.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/deparse.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/variables.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/env.h
No license file was found, but licenses were detected in source scan.

* :LICENSE: license-class-pattern
* :LICENSE: type.class pattern override
package.mam = --never --force --mam=static --corrupt=accept --clobber --compare --link='lib*.a*'
CC=$(CC.DIALECT:N=C++:?CC?cc?) package.license.class=$(license:Q) $(=) 'dontcare test' install test
":LICENSE:" : .MAKE .OPERATOR
$(MAKE) --noexec $(-) $(=) recurse list.package.$(type) package.license.class=$(license:Q)
1) echo 'The software is covered by this license:' ;;
$(MAKE) --noexec $(-) $(=) recurse list.package.$(type) package.license.class=$(license:Q)
$(copyright:N=1:??LICENSE=?)
$(MAKE) --noexec $(-) --variants=$(variants:Q) $(=) recurse list.package.$(type)
package.license.class=$(license:Q) cc-
$(MAKE) --noexec $(-) --variants=$(variants:Q) $(=) package.strip=$(strip) recurse list.package.$(type)
package.license.class=$(license:Q) cc-
$(MAKE) --noexec $(-) --variants=$(variants:Q) $(=) package.strip=$(strip) recurse list.package.$(type)
package.license.class=$(license:Q) cc-

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/lib/package/package.mk
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/package.mk
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/acosh.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/log1p.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/log__L.c
*
 /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/exp.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/exp__E.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/atanh.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/support.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/asinh.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/expm1.c

No license file was found, but licenses were detected in source scan.

12-07-17 iffe.sh: add C code NOTE("...") to ammend --verbose output
12-06-26 iffe.sh: fix "npt foo" to handle function-like macro foo()
12-06-20 package.sh: use $KSH for rt in "results test"
12-06-15 Makefile: add PLUGIN_LIB to $INSTALLROOT/bin/.paths and BUILTIN_LIB => PLUGIN_LIB
12-06-15 package.sh: add PLUGIN_LIB to $INSTALLROOT/bin/.paths and BUILTIN_LIB => PLUGIN_LIB
12-06-13 package.sh: handle admin.db column output
12-06-08 iffe.sh: fix 12-06-06 typo
12-06-06 iffe.sh: check for -l* in reverse and accumulative order (e.g., for -last & -lm)
12-06-04 package.sh: always check $INSTALLROOT/lib/package/profile
12-05-31 Makefile: ID=ast; $(INSTALLROOT)/prototyped.h => $(INSTALLROOT)/$(ID)/prototyped.h
12-05-28 iffe.sh: api foo YYYYMMDD => FOOAPI(rel) test macro
12-05-24 package.sh: change admin.db comment => owner attributes
12-04-25 ratz.c: add sear -k option to keep installation tmp dir on exit
12-04-17 package.sh:
skip sh version logic for ``use''
12-04-17 cc.ibm.risc*: _LARGEFILE64_SOURCE => _LARGE_FILE_API moved to libast/features
12-04-09 cc.ibm.risc*: speak aixese for _LARGEFILE64_SOURCE
12-02-29 cc.darwin.i386*: handle default cc vs kernel bittedness
12-02-29 C+probe: add __TIMESTAMP__ to the nopredefined list
12-02-29 package.sh: don't assume grep -q or /usr/local/lib in LD_LIBRARY_PATH
12-02-29 package.sh: fix ksh vs -lcmd compatibility checks
12-02-23 iffe.sh: checkcc() before checkread() for sensible diagnostics
12-02-14 package.mk: { --clobber --compare --link=lib*.a* } for --mam=static
12-02-14 package.mk: export LICENSEFILEDEFAULT instead of LICENSEFILE
12-02-14 package.sh: handle @(cc|ld).${HOSTTYPE}* intercepts
12-02-07 package.sh: add { clean clobber } actions
12-02-02 regress.sh: fix ulimit -c defaults for --nokeep
12-01-18 regress.sh: add INPUT|OUTPUT|ERROR -e 'filter' to filter before comparison
12-01-21 package.sh: fix `admin make' bug that created unused $INSTALLROOT/lib
12-01-21
Makefile: :PACKAGE: license=ast -- oops
12-01-20 cc.darwin,cc.mvs.390: tmp=/tmp/cc.${USER:-$LOGNAME}.$$.err
12-01-12 package.sh: add admin make share closure to handle alternate HOSTTYPEs
11-12-13 iffe.sh: add /*<NOSTDIO>*/ test code comment to disable default #include <stdio.h>
11-11-11 C+probe: test for .so before .sl
11-10-26 package.sh: don't forget about *.pkg for admin update
11-10-18 cc.*-icc: update and add more
11-10-11 package.sh: handle package make|view when no source installed
11-09-11 package.sh: count admin '*** termination code' errors
11-08-31 mamake.c: add -e, ignore use recursive prereq timestamps
11-08-29 iffe.sh: add ``set stdio try1.h - try2.h ...''
11-08-29 iffe.sh: trap EXIT => trap 0 for ancient sh
11-08-11 iffe.sh: handle ancient sort that doesn't have -k
11-06-01 make.probe: add more /lib64 logic
11-05-01 package.sh: fix admin ditto to sync LICENSES too
11-03-25 package.sh: initialize { $SED $TR } before first use!

11-03-21 package.sh: fix vpath probes
11-03-17
iffe.sh: fix cleanup to rm $tmp* instead of $tmp*.*
11-02-24 package.sh: change curl usage to "curl -L ..."
11-02-11 package.sh,C+probe,make.probe,mamprobe.sh: add ###.*archiac.*###
11-02-02 Makefile: add :MAPLIB: check for ancient -lw
11-02-02 make.probe: handle -print-multi-directory => 64 => /usr/lib64 /lib64
11-02-02 package.sh: HOSTTYPE=*,*cc*[,-*,...] sets CC [and CCFLAGS]
11-02-02 make.probe: handle gcc $ORIGIN link but exec failure -- gee thanks
11-01-25 cc.hp.ia64: bundled cc is a pile of shaving cream
11-01-07 iffe.sh: check debug==3 for is_hdr() failure
10-11-22 ditto.sh: fix timing problem between |& and exec &p
10-11-10 package.sh: fix cc cross compile check to use checkcc absolute path
10-10-10 package.sh: list main env vars at start of make action
10-10-10 ratz.c: tweak widnows delays
10-09-10 ratz.c: add _SEAR_ARGS for _SEAR_EXEC
10-09-01 package.sh: fix ratz from source logic
10-08-25 package.mk: consolidate license file search in .package.licenses.
10-08-22
ratz.c: run sear bootstrap command detached
10-08-20 C+probe: version_stamp only if version_flags works
10-08-17 package.sh: unset makerules *DIR variables in env
10-08-15 package.sh: "make" action now lists some env values
10-08-11 mktest.sh: add "DO command ..."
10-07-27 rt.sh: handle "rt X=Y ..."
10-06-29 ratz.c: non-option sear args passed to sear_exec()
10-06-25 iffe.sh: "api" op changed to not do "map-libc" type mappings
10-06-25 package.sh: "force admin ditto" => no ditto --update option
10-06-22 C+probe: handle cc that require .[ci] input for version info
10-06-21 ditto.sh: change default remote access to ssh (about time)
10-06-12 regress.sh: DISGNOSTICS [1 | 0 | pattern] and fix EXIT for all
10-06-09 package.sh: add AT&T to usable nmake check
10-06-06 iffe.sh,iffe.tst: add { api ver } ops
10-04-22 package.sh: update "html binary|source" NAME/PASSWORD info
10-04-15 iffe.sh: don't forget candidate headers for hdr|sys!
10-04-11 WWW.mk: disable man page metarule -- now done by
admin-man(1)
10-02-14 package.sh: $CC verification needs $INSTALLROOT/bin in PATH
10-02-11 package.sh: fix package admin make report error count
10-02-02 package.sh: fix write binary bug that did scp on local fs
10-02-02 package.mk: up to date binary targets must still be in PACKAGE.*.lst
10-01-01 package.sh: fix premature $INSTALLROOT/bin during cross compile check
10-01-01 make.probe: handle ['"] in CC.VERSION.STRING
09-12-04 iffe.sh: add "opt name" to check for name in $PACKAGE_OPTIONS
09-11-30 mktest.sh: change RESET to STATE.RESET to make it global
09-11-14 make.probe: use gcc { -print-multi-directory -print-search-dirs }
09-11-11 package.sh: re-order and combine cc checks
09-10-27 C+probe,make.probe,probe.win32: add CC.SUFFIX.DEBUG

09-10-21 iffe.sh,Makefile: test -e is not in ksh88!
09-10-06 iffe.sh: handle cc -E #error with 0 exit status (sgi)
09-10-06 package.sh: stub in ar intercept checks -- not used yet
09-10-06 ar.ibm.risc: add ar intercept because some aix require -Xfoo first!!
09-09-24
regress.sh: fix UMASK logic to create test support files before umask
09-08-28 release.c: change docs to mention stdin if no file operands
09-08-24 package.sh: fix isascii() bug that failed on od(1) trailing space
09-08-20 make.probe: add CC.SHARED.NAME
09-08-20 regress.sh: add { JOB CONTINUE EXITED KILL FIFO }
09-08-11 package.sh: filter lines containing : for package results
09-07-31 make.probe: add CC.AR.ARFLAGS (for aix ar -xany)
09-07-31 package.sh,cc.*: fix -dumpmachine to handle 32/64/* bit options
09-06-24 package.sh: fix admin.db output formatting
09-05-05 package.sh: export dll hackery environment vars
09-05-05 package.sh: handle non-identifier hostnames
09-05-05 mamake.c: pass undefined ${...} identifiers to the shell
09-05-05 mamake.rt: add macro expansion regression tests
09-05-01 iffe.sh: fix output initialization *again*
09-04-28 package.sh: handle admin.db contact field $9
09-04-15 iffe.sh: add implicit "ini" op to initialize io for subsequent ops
09-03-31
regress.sh: EXPORT before test => global ENVIRON[]
09-03-26 package.sh: test fail pattern is 'fail[es]'
09-03-26 UNIT - ... appends (options) to command line
09-03-19 TEST.mk: x.tst => x only if x is command target
09-03-15 regress.sh: add ${MAIN} for base name of main unit
09-03-10 TEST.mk: add .SOURCE:tests if tests is a dir
09-03-03 regress.sh: allow command line unit to override UNIT
09-03-03 mktest.sh: handle IO == $'\n'
09-02-02 package.sh: delay $INSTALLROOT/bin/.paths generation until mamprobe runs
09-01-30 cc.mvs.390: c89 balks at [()] in -Dname="..."!
09-01-27 package.sh: add isascii() to use ratz instead of tar
09-01-20 hurl.sh: add --size=bytes option
09-01-08 TEST.mk: add test.* prereqs, multiple arg lists with :T=*: binding
09-01-03 regress.sh: fix UNIT to allow command line override
09-01-03 mktest.sh: handle TWD
08-12-24 package.sh: fix cross-compile HOSTTYPE logic
08-12-15 package.sh,hurl.sh: handle http codes { 301 302 303 }
08-10-16 make.probe '-fno-stack-protector
-fno-stack-protector-all' to cop out!!
08-09-30 rt.sh: fix ksh93 regression test signal count
08-09-26 regress.sh: ignore SIGPIPE for SET pipe-input
08-09-24 package.sh: package only test foo => make --recurse=only recurse tests foo
08-09-20 make.probe: handle another /usr/bin/file shared lib description
08-09-20 regress.sh: add --pipefail for SET pipe-input ...
08-09-17 Makefile: add gdbm1.c for <gdbm-ndbm.h>
08-09-10 make.probe: add CC.NOPROTECT

08-08-08 mktest.sh: add --width=width
08-08-05 dbm.req: favor sleepycat ndbm compatibility
08-08-04 C+probe: fix stdlib initialization logic
08-06-24 package.sh: fix $INSTALLROOT/bin/cc intercept time stamp file typo
08-06-20 TEST.mk: make the localyunit before *.rt => *.tst -- doh
08-06-20 mktest.sh: prepend $PWD onto PATH for local units -- doh^2
08-06-11 regress.sh: fix bug that skipped the last test
08-05-20 regress.sh: add --local to put *.tmp dir in local fs
08-05-05 regress.sh: add IF command ... ELIF command ... ELSE ... FI
08-05-01
package.sh: package test => ulimit -c 0
08-04-28 regress.sh: fix EXPORT quoting
08-04-28 regress.sh: fix UNIT set check args too
08-04-24 rt.sh: exit code > 256 => signal termination
08-04-10 C+probe: change probe_so order to check .so last (macos ld workaround)
08-04-01 package.sh: handle multiple admin HOSTTYPEs per HOST
08-03-28 C+probe: add C++ #include <iostream> (no extension) dir probes
08-03-17 regress.sh: fix trap on EXIT, add terminated note to final tally
08-02-28 make.probe: fix probe_warn to include ld!
08-02-02 make.probe: add CC.RUNPATH to match default -L order
08-01-31 package.sh: check lib64 for LD_LIBRARY_PATH
08-01-31 iffe.sh: tweak ancient /bin/sh workarounds
08-01-28 make.probe: darwin ld export dynamic is -force_flat_namespace
08-01-28 C+probe: handle sgi cc error message but exit 0 botch(es)
08-01-23 package.sh: fix checksum doc typo
08-01-09 C+probe: add __FUNCTION__ to the undef (don't check) list
07-12-14 iffe.sh: add set nooptimize
07-12-03 package.sh: add
LC_ALL=C
07-11-27 package.sh: fix overaggressive *.md5 cleanup
07-11-20 iffe.sh: treat exit status >= 250 as normal error with no signal
07-11-05 package.sh: fix write op error count pattern
07-11-05 package.mk: fix $(~req) .ver binding
07-08-11 probe.win32: add cl.exe setuid workaround, CC.VERSION[.STRING]
07-08-01 package.sh: handle 'package read lcl|tgz'
07-05-08 regress.sh: execute basename instead of absolute path for short $0
07-04-27 cc.sgi.mips[34]: for #error to exit non-zero -- a no brainer
07-04-20 mktest.sh: defer to systems without 'grep -q' -- sigh
07-04-11 mamprobe.sh: handle $(CC.*) => ${mam_cc_*}, $(...) => ${...}
07-04-11 make.probe: fix CC.PICBIG probe, default { CC.PIC CC.DLL } to BIG
07-04-04 iffe.sh: prepend ${tst}${ext} to each .c probe
07-03-28 package.sh: fix binary tgz architecture type duplication
07-03-28 package.mk: add binary write PACKAGE.$HOSTTYPE.lst
07-03-28 iffe.sh: add -F header to mac test
07-03-23 make.probe: handle file(1) that returns 'archive' for
.so
07-03-22 mamprobe.sh: fix STDED probe for implementations that ignore EOF
07-03-11 package.sh: add nocopyright and tst => nocopyright

07-03-11 package.mk: add copyright=0
07-03-08 C+probe: restore IFS after probe.ini
07-02-26 mamake.c: expand first of ${mam_lib*} for ${AR}
07-01-05 package.sh: fix "admin write binary" logic
07-01-01 iffe.sh: add "cmd" --verbose trace
07-01-01 iffe.sh: sort => LC_ALL=C sort
07-01-01 C+probe: LC_ALL=C
06-12-22 make.probe: lean on gcc -v for stdlib, but preserve /usr/local!
06-11-23 package.sh: *.md5 are not tarballs -- doh
06-11-23 iffe.sh: add -F, --features=feature-test-header
06-11-11 make.probe: favor lib64 over lib for hosttype==*64
06-10-31 make.probe: add "-ignore-source-dir -iquote" test
06-10-31 iffe.sh: add status{...} code block
06-10-11 regress.sh: fix DO to handle {...} (time for regress.tst?)
06-10-11 package.sh: handle already gunzip'd *.tgz
06-10-06 iffe.sh: add reference for header content tests
06-09-27 regress.sh: fix UMASK to do
DO too (duh)
06-09-22 iffe.sh: drop -O for npt tests (for msvc intrinsics)
06-09-14 cc.darwin: drop -O until gcc 4.* gets its act together
06-09-11 package.sh: { cc ld ldd } intercepts check ${HOSTTYPE%.*} too
06-09-08 regress.sh: add PIPE INPUT|OUTPUT for pipe io
06-09-05 C+probe: add { probe_version version_stamp version_string }
06-09-05 make.probe: add version stamp comment, CC.VERSION[.STRING]
06-08-27 regress.sh,mktest.sh: add UMASK
06-08-25 regress.sh: add -b,--ignore-space,IGNORESPACE
06-08-25 mktest.sh: add IGNORESPACE
06-08-24 mktest.sh: handle \000 in data
06-08-24 regress.sh: handle -f* for INPUT|OUTPUT|ERROR
06-08-16 package.sh: fix 'install flat' logic
06-08-11 rt.sh: handle style=shell %K date format
06-07-17 ratz.c: fix __MVS__ FAR definition
06-07-17 iffe.sh: "header x.h" -- deprecate "include x.h" for .SCAN.iffe
06-07-17 package.sh: differentiate urls vs. assignments
06-06-27 rt.sh: add --failed, --heading
06-06-27 C+probe,TEST.mk,make.probe,mktest.sh,regress.sh: 'ulimit
-c 0'
06-06-26 cc.darwin.ppc: handle -lcc_dynamic disappearance
06-06-25 mktest.sh: implement PROG
06-06-11 Makefile: add -ldbm :MAPLIB:, provide public MAPLIB.mk
06-05-06 package.sh: add PACKAGE_admin_tail_timeout
06-05-22 ratz.c: upgrade to zlib-1.2.3
06-05-09 package.sh: fix admin.db docs
06-03-11 package.sh: fix `package use - command ...'
06-03-05 make.probe: work around pedantic bash 3.1 mismatched " in `.`
06-02-14 package.sh: "results failed test" == "results test failed"
cc.sgi.*: add _AST_cc_OPTIONS parameterization, -OPT:Olimit=0
cc.linux.ia64-icc: add for intel cc

06-02-02 package.sh: freebsd stuck with os version for all arch
06-02-01 package.mk: fix locale logic (tw -d requires dir arg)
06-01-31 package.sh: require $CC only for make|test
06-01-30 package.sh,hurl.sh: use the backwards-compatible --http-passwd
  package.sh: add more pdksh => /bin/sh checks
06-01-26 package.sh: wget --http-pass => --http-password
  package.sh: fix wget error logic
  hurl.sh: wget --http-pass
 => --http-password
06-01-11 package.mk: pass package.license.class to make --mam too
  package.mk: variants=pattern => --variants=pattern
  package.sh: darwin rel<=7 => darwin7.ppc
  package.sh: freebsd rel<=4 => freebsd4
  package.sh: freebsd rel<=5 => freebsd5
05-12-07 iffe.sh: don't emit <stdio.h> if <sfio.h>|<ast.h> (XXX)
05-12-05 make.probe: disable readonly.exe core dump via ulimit -c 0
05-09-22 mktest.sh: add EXEC [++NOOUTPUT ++NOERROR ++NOEXIT]
05-09-21 mktest.sh: fix --style=shell compare to ignore \r
05-09-12 TEST.mk: all --force to force %.rt regeneration
05-09-05 TEST.mk: regenerate from %.rt only if newer, :SAVE: %.tst
05-08-25 mktest.sh: add
  TEST.mk: add %.rt=>%.tst for mktest
05-08-18 package.sh: 'package host cpu' now checks $NPROC first
05-07-17 iffe.sh: add { define extern include print } ops
  iffe.sh: accept output{...}end output on success only -- doh
05-07-01 package.sh: add TARPROBE for tar B flag probe
05-06-24 package.sh: fix binary read chmod via
 *.sum
05-06-06 package.sh: fix KEEP_HOSTTYPE logic to handle synthesized types
05-06-01 make.probe: verify that cc_pic works for hosted cc
  cc.lynxos.ppc: make -mshared the default
  package.sh: note $INSTALLROOT/bin/@(cc|ld|ldd) installation
05-05-25 make.probe: add CC.INCLUDE.LOCAL instead of -I- in CC.DIALECT
05-05-24 iffe.sh: really fix grouping logic -- with tests this time
  package.sh: pipe/socket configuration mismatches => use /bin/sh
05-04-28 TEST.mk: add $(TESTS)
05-04-19 package.sh: package results test uses rt if possible
  iffe.sh: fix 'op var - ... - ...' grouping logic
05-04-15 rt.sh: handle autom4ate style
05-04-11 regress.sh: fix unit name when command line unit also specified
  rt.sh: handle all ast package test output formats
  package.sh: fix make docs for options passed to underlying make
05-04-08 package.sh: cp -p makerules.mo to $OK to preserve mtime
  regress.sh: add "TITLE name" to change TEST output title
05-04-01 rt.sh: add pretty make test + regress.sh wrapper
05-03-29
 package.sh: test -e path => test -f path -o -d path
05-03-24 make.probe: fix CC.PICBIG probe to prefer -fPIC over -fpic -- doh

05-03-19 mamake.c: command line name=var also defines name.FORCE=var
05-03-11 regress.sh: unset LC_ALL when LC_* EXPORT'd
  package.sh: old make.out saved in circular make.out.[1-9]
  mamake.c: sync with nmake :W=O:
05-03-01 package.sh: fix flat hierarchy initialization
  package.sh: admin action now properly resets sibling remote logs
  package.mk: relax unknown/unwritten package messages to warnings
  package.sh: handle space in command line name=value
  make.probe: add mvs -Wc,dll,exportall,longname,rent to CC.DLL probe
05-02-24 package.sh: hosttype *.powerpc => *.ppc
  cc.lynxos.ppc,ldd.lynxos.ppc: add
05-02-22 mamake.c: fix { -G --debug-symbols -S --strip-symbols } MAMAKEFLAGS bug
05-02-20 probe.win32: handle /platformsdk mount
05-02-19 package.sh,package.mk: add write tst for tgz in tst subdir
05-02-18 package.sh: accept cc -dumpmachine with
 0 or 1 -
05-02-14 package.sh: handle mutiple architectures per host in admin.db
  Makefile,package.sh: honor $INSTALLROOT/bin/.paths overrides
  package.sh: normalize trailing [-_]bits in host type
  iffe.sh: some ksh-compatible shells don't do *(pattern)
05-02-11 iffe.sh: back out 05-01-11 child process stdin hijack
  cc.lynxos.i386: -dynamic instead of -static default
05-02-10 package.sh: cyg usr/doc => usr/share/doc
05-02-08 package.sh: drop -m with pax -- delta bug fixed 2005-02-08
  iffe.sh: work around old bash 0<... redirection bug
05-02-06 package.mk: source.tgz: update generated files only when they change
05-02-02 *.sh,*probe: IFS may be unset and { ash bsh } don't on startup -- wow
05-01-11 package.sh: update setup docs to include authorize+password
  package.mk: fix .source.cyg final directory edit
  package.mk: notice=1 for conspicuous empty NOTICE file
  WWW.mk: fix *-index.html installation
  filter.sh: retain input file suffix in tmp copy
  mamexec.c: fix non-contiguous
 "exec" bug that skipped lines
  iffe.sh: fix candidate lib test to try grouping subsequent libs
  iffe.sh: fix child process stdin hijack that skipped input lines
  iffe.sh: --shell=osh to force read -r compatibility command
  iffe.sh: chop iffe input leading space before # for KnR compatibility
05-01-05 package.sh: add ${TAR} ${TARFLAGS} and tar B flag for pipes
  mamake.c: fix makefile scan to ignore lib*.[hH]
  iffe.sh: immunize function/symbol tests from aggressive -O
04-12-28 WWW.mk: add :WWWPAGE: faq.*.mm index generator
04-12-21 ratz.c: make sure tmp dir is writable -- doh
04-12-08 iffe.sh: fix dat test for aggressive -O
04-12-01 iffe.sh: add `include file' to pull in #define's for `exp'
04-11-11 package.sh: default MAKESKIP is "*[-.]*"
04-10-22 ratz.c: change docs to note zlib license
  mamake.c: handle --debug-symbols and --strip-symbols

package.sh: make (debug|strip)=1 => --(debug|strip)-symbols
package.mk: add :LICENSE: => package.license.class
mamake.c: fix recursive
order logic
04-10-18 package.mk: add :LICENSE:, :OMIT: to omit package subdirs
04-10-11 package.sh: add 'authorize name' and 'password password'
04-10-01 iffe.sh: double check $static link with ! $static
Makefile: add BUILTIN_LIB to $INSTALLROOT/bin/.paths
make.probe: add CC.DIALECT EXPORT={ALL,REF,EXT,DLL}
package.sh: add BUILTIN_LIB to $INSTALLROOT/bin/.paths
04-09-21 package.mk: $(init)$(name) is now an implicit prereq
04-09-09 package.sh: copy makerules.mo to $INSTALLROOT/bin/ok
04-09-01 package.mk,package.sh: rename *.txt => *.README
package.mk: add the runtime package type (no *.[ah])
iffe.sh: fix key test reports
04-08-26 Makefile: { add m2.c m3.c } -lm tests for { frexp[l] ldexp[l] }
04-08-11 package.mk: handle HOSTTYPE for solaris > 9
package.sh: add `checkaout proto' for { make view }
package.sh: check for { md5sum md5 }
iffe.sh: add {if|elif|else|endif} test ...
iffe.sh: add 'exp - expression' and '(expression)'
iffe.sh: add 'name = test ...' user
defined macros
iffe.sh: add '! test ...' negation
TEST.mk: add implied { .c .sh } generated prereq
cc.darwin.ppc: handle 10.3 -dylib mess
04-08-01 package.mk: let include handle nested requirements -- duh
04-07-31 package.sh: attempt a second ping before admin assumes host down
04-07-26 package.sh: fix hp.ia64 HOSTTYPE
04-07-23 probe.win32: generalize #include dir order search
04-07-17 regress.sh: add INPUT -x for chmod +x
04-07-01 regress.sh: TMP => TWD
04-06-29 regress.sh: put COMMAND in $TWD too
04-06-21 regress.sh: mkdir -p INPUT and OUTPUT intermediate dirs
TEST.mk: add :TEST: -- to disable .c .sh search
04-06-18 TEST.mk: add .SCAN.tst
04-06-17 regress.sh: TEST returns true if active, false otherwise
regress.sh: add CD to change test pwd from $TWD
04-06-16 regress.sh: add TWD for ./unit.tmp override
regress.sh: DO now flushes previous test
regress.sh: INPUT and OUTPUT handle -f for printf instead of print
04-06-11 package.sh: make sure $INSTALLROOT/bin is in front of
$PATH
package.sh: skip nmake if older than 2000-10-31
04-05-20 package.sh: fix arg vs. package parse with - or '' to disambuguate
04-05-11 package.sh: package verbose update lists closure for package setup
package.sh: add src/lib/libardir to nmake proto bootstrap
regress.sh: probe for rm -u vs. chmod -R u+rwx

04-05-01 package.sh: $CC must be C, not C++; allow release command on $PATH
04-04-15 make.probe: check probe_libdir false positives
  package.sh: add lib/package/*.lic src package subdirs
  package.mk: add mamfile=0 to inhibit Mamfile generation
  iffe.sh: config name_DECLARED => HAVE_name_DECL
  iffe.sh: fix mac to handle default value
04-04-11 iffe.sh: normalize sed [\\\/] quoting
04-04-04 package.mk: only checksum generated tarballs
  mamprobe.sh: add STDCHMOD
04-04-01 C+probe: set export LANG=C for uniform error messages
  make.probe: another CC.STDLIB tweak
  package.sh: fix regress core dump pattern, expand [a-z] match ranges
04-03-31 Makefile: add intl :MAPLIB: test

 make.probe: fix CC.STDLIB search; drop CC.* path duplicates
04-03-28 iffe.sh: drop unused exec $stdin<&0 dup
04-03-25 Makefile: add iconv :MAPLIB:
  package.sh: use ${PING:-ping -c 1 -w 4}, allowing admin.db override
04-03-24 package.mk: add *.md5 checksum for each *.(c|exe|tgz)
  package.sh: update base change on md5 sum instead of size
  iffe.sh: adjust case label \ and keyword quoting for ancient /bin/sh
04-03-22 probe.win32: ncc => nld
04-03-19 CONVERT.mk: change the instructions and old source dir default
  package.mk: fix recurse=list check
  package.mk: add *.md5 checksum for each *.(c|exe|tgz)
  package.sh: fix update base/delta/sync existence check
04-03-18 iffe.sh: -d2 does not remove core dumps on exit
04-03-17 package.sh: fix make recurse arg/action order
04-02-29 package.sh: add regress action to compare current and previous tests
  package.sh: fix sgi.mips[23] HOSTTYPE test for old irix cc
  package.sh: add `export variable ...'
  package.sh: admin action now handles host
 name with non-id chars
  package.sh: non-numeric M T W in admin.db disables that action
  package.sh: fix admin write binary local vs. shared clash
  cc.hp.pa: add _AST_CC_hp_pa_DEFAULT=+DAportable
  cc.hp.pa64: sync with cc.hp.pa
  cc.ibm.risc: -bnolibpath => -blibpath:/usr/lib:/lib
  probe.win32: sync with make.probe
  make.probe: fix last chance dynamic test
  make.probe: add hp.pa CC.EXPORT.DYNAMIC -Wl,-E
  make.probe: add ibm.risc CC.EXPORT.DYNAMIC -bexpall
  make.probe: move probe_dll_def to the end of probe_dll
  package.mk: capture subcomponent mamfile recursion
04-02-24 make.probe: strip "..." from cc/ld traces
  iffe.sh: add ``set [no]define" to disable macro #define/#undef
04-02-23 make.probe: rework CC.LD search
04-02-14 make.probe: add CC.EXPORT.DYNAMIC for main dynamic sym export

make.probe: resurrect CC.PIC with separate semantics from CC.DLL
make.probe: add CC.SHARED.LD for CC.SHARED linker
C+probe: clear DISPLAY to stifle interactive windows
04-02-11 iffe.sh:
handle ``siz void*'', add cross{ ... }end
make.probe: add { CC.AR CC.SIZE }, fix cross command search
cc.darwin.ppc: change $cc => $CC for old ksh + libast conf bug
04-02-09 make.probe: drop -nostartfiles from CC.SHARED for C++
04-02-04 package.sh: fix cross compilation bug that mixed binary formats
04-02-02 package.sh: package admin now ditto's bin/package too
04-01-30 cc.sgi.mips3: drop warning 3421
04-01-11 regress.sh: output label#count for tests in loops
04-01-05 regress.sh: fix bug that ignored the first SAME
04-01-04 crossexec.sh: fix typo that did not recognize rcp
03-12-19 mamake.c: add `foolib:foo:libfoo' to recurse()
03-10-11 regress.sh: add EXPORT, export COLUMNS=80 for message consistency
03-09-23 ratz.c: fix tar header number parse bug that skipped to next number
regress.sh: rm cleanup now handles files matching -*
03-09-11 iffe.sh: add unnamed { ... } blocks
regress.sh: add COPY from to, like MOVE but comprison still done
regress.sh: rm -rfu to handle test dirs
w/o u+rwx
03-08-14 Makfile: add hello.c to the manifest
03-08-11 package.sh: fix `html binary' generation
03-06-21 package.sh: fix INITROOT initialization bug
package.sh: make sure admin logs exists before tail'ing
03-06-11 probe.win32: fix $(BINDIR) typo that expanded in sh instead of make
cc.mvs.390: return code 4 yields exit code 3 but its *really* ok
package.sh: fix onpath function global var conflict
make.probe: add CC.DIALECT { GNU -dD }
package.mk: add Mamfile to lcl manifest
03-06-10 package.sh: fix setup action typo that only checked the INIT package
package.sh: *.s390x => *.s390-64
03-06-09 package.mk: add cyg :POSTINSTALL:
03-06-08 make.probe: fix CC.STDLIB logic
hurl.sh: add User-Agent identification
package.sh: tweak source and binary installation instructions
cc.hp.pa,ld.hp.pa: +-Wl,+cdp,${INSTALLROOT}/lib/: drops abs lib paths
ldd.hp.pa: add
03-06-06 package.sh: fix $INSTALLROOT/bin/ldd check
make.probe: add CC.STDLIB verification
03-06-04 make.probe:
add +forceread +noforceread
03-05-11 hurl.sh: handle http://host:port/path
03-05-06 package.sh: fix setup action PACKAGEROOT and INIT logic
03-05-05 package.mk: fix cygwin tarball names
03-04-30 package.sh: move (cc|ld|ldd).$HOSTTYPE updates from Makefile
03-04-27 make.probe: fix mvs CC.PREFIX.SHARED "lib" => ""

make.probe: add CC.DLL.DIR = $(BINDIR) or $(LIBDIR)
make.probe: add { CC.LD.LAZY CC.LD.NOLAZY CC.LD.RECORD CC.LD.NORECORD }
probe.win32: sync with latest CC.*
03-04-25 mamprobe.sh: add args to `. $makeprobe' for ancient sh
03-04-23 package.mk: fix dup "covered by" licenses
03-04-22 probe.win32: CC.DIALECT += "LIBPP -I-" for all cc's
package.sh: fix admin write binary tarball snarf
03-04-21 package.mk: package covered *.@(pkg|lic) too
03-04-15 package.mk: don't generate incremental archives for lcl
package.mk: add incremental=[source:1 binary:0] archive control
package.sh: generate $INSTALLROOT/bin/cc wrapper for CC != cc
package.sh: admin must ditto lib/package/*.@(pkg|lic)
too
mamake.c: ignore time of ignore prereqs
mamake.c: -D2 lists propagated times
03-04-11 package.mk: tidy up cyg tarballs
package.sh: fix old shell clash between get() and $get
03-04-05 package.mk: restore *.inx generation somehow lost during cyg additions
package.sh: add pthread_num_processors_np() last resort for cpu count
package.sh: use `make believe' to accept mamake generated files
package.sh: handle `make [make-flags] [target ...]'
mamake.c: ignore -e
03-03-21 package.mk: fix cyg old make typo
package.sh: switch to `package setup' instructions
03-03-19 package.sh: add registry checks for `host cpu'
package.sh: `results failed' now lists core dump messages
03-03-17 package.sh: on cygwin verify 'ntsec binmode' in $CYGWIN or die
Makefile: install gcc wrapper if no cc
package.mk: add :DETAILS: { :README: :EXPORT: :INSTALL: :TEST: } ops
03-03-12 package.mk: add :DETAILS: for style-specific details
03-03-11 package.sh: add beta setup/update support

TEST.mk: add (TESTCC) prereq for .sh tests
03-03-07 hurl.sh: add
03-03-06 iffe.sh: fix lib win32 test cygwin vs native incompatibility
iffe.sh: change internal stdio.h guard to handle C++ inline vs. macro
03-03-03 package.sh: check for curl or wget for update
package.sh: add setup action == update read make
package.sh: fix packageroot() typo that showed up in non ~user shells
mamake.c: treat name+=value args like name=value
mamake.c: add ${var?*|value?match?no-match?}
mamake.c: fix archive vs. dynamic bind logic
03-02-28 package.sh: add the "cyg" (cygwin) package type
package.mk: add "cyg" stubs, :CATEGORY: for category name(s)
03-02-25 mamake.c: add -D4 system(3) debug trace
03-02-24 package.mk: change --mismatch to --corrupt=accept
03-02-14 ratz.c: add _WIN32 setmode([01],O_BINARY) and fopen "rb"/"wb"
03-02-12 Makefile: handle getconf LIBPATH with host pattern

03-01-31 package.mk: fix .lic search
03-01-30 package.sh: handle { INIT ksh nmake } already installed elsewhere

package.sh: admin handles command outside of $PACKAGEROOT/bin
Makefile: install $(INSTALLROOT)/lib/make/package.mk
03-01-28 package.sh: admin remote commands on one line to please syslog
03-01-23 probe.win32: borland and mingw32 tweaks
03-01-22 package.sh: fix $CC test to ignore set -x trace -- duh
03-01-16 ditto.sh: tw --chop on by default
03-01-14 package.sh: use /bin/cp to copy previous binaries to bin/ok/
package.sh: admin now initiates remote exec and copy from local host
03-01-12 package.sh: handle admin "xxx:" default root
03-01-03 probe.win32: add /usr/include/borland path truncation workaround
02-12-10 iffe.sh: add <&$nullin >&$nullout to checkread() $cc
02-12-06 probe.win32: fix inlcude => include typo, add lcc lib
probe.win32: CC.MAKE.OPTIONS = nativepp=0
02-12-04 mamake.c: fix ${foo-bar} to expand foo if defined
02-11-28 probe.win32: add C++ and -I- CC.DIALECT checks
02-11-26 package.sh: package release now checks for second level files
02-11-22 package.sh:
update action now uses HTTP/1.0
02-11-21 probe.win32: update the vc include dir test
02-11-20 make.probe: fix CC.LD.ORIGIN typo that expanded make var
02-11-13 packahe.mk: fix list.install => list.installed typo
02-11-12 make.probe: add CC.LD.ORIGIN for a.out origin dir relative dll search
make.probe: add CC.LD.STRIP for link time a.out strip
package.sh: fix package_use vs. PACKAGE_USE check
02-10-24 WWW.mk: fix bug that required a :WWWBIN: assertion to post
02-10-23 mamake.c: fix unuinitialized time in make()
ratz.c: fix meter buffer overflow
02-10-20 package.sh: fix lib/probe/C/make/probe update test
02-10-18 probe.win32: update for mingw
make.probe: add bash workaround to SHELLMAGIC test
package.sh: work around yet another cygwin hassle
02-10-17 iffe.sh: short circuit id check for *[-+/\\]*
02-10-08 regress.sh: unset FIGNORE to avoid rm . errors
package.sh: unset FIGNORE to avoid rm . errors
package.sh: $CC must at least compile and executable hello world
02-10-04 package.sh:
$INSTALLROOT/lib/package/tgz=>$PACKAGEROOT/lib/package/tgz
package.mk: $(ED) => $(STDED), $(EDFLAGS) => $(STDEDFLAGS)
iffe.sh: add identifier checks for tests that (implicitly) require them
iffe.sh: disambiguate a few --config macros
02-10-02 iffe.sh: fix shell=bsh `hdr a/b'
02-09-30 package.sh: handle chmod of -* files
package.sh: verify that $SHELL is Bourne compatible
package.sh: tighten PACKAGE_USE logic PATH,LIBPATH,etc. validation
iffe.sh: fix bug that didn't define mac variable on success

02-09-22 package.sh: handle admin_action=ditto
  iffe.sh: --config sizeof(foo) macro is SIZEOF_foo
  iffe.sh: fix long.long test so it doesn't defeat uwin "typ long.long"
  mamprobe.sh: convert $("foo") nmake string constants
02-09-21 mamprobe.sh: "-" info-path writes probe info to stdout
02-09-11 make.probe: move from nmake src to be part of mamprobe.sh
  mamprobe: generate from mamprobe.beg C.probe make.probe mamprobe.end
  mamake.c: pass cc absolute path to mamprobe
  package.sh:
 generate mamprobe -- yuk (at least its confined to INIT)
  iffe.sh: lcl,nxt: drop default sys/ check
  ditto.sh: tw --logical by default; add --physical
02-09-10 package.sh: SHELLMAGIC creeps into package too -- duh and fooey
02-09-09 ditto.sh: test that remote .profile exists before sourcing
02-09-06 package.sh: don't ditto nfs junk
  ditto.sh: --show now lists directory ops instead of enumerating all
02-09-05 ditto.sh: add --remote={rsh|ssh}
  package.sh: add admin [[{rsh|ssh|-}]:]directory
02-09-02 iffe.sh: change 'print -r --' to 'print -r -' for ksh86 compatibility
02-09-01 cc.unix.mc68k: add for ancient 3b1
02-08-22 package.sh: fix component() to test for components -- duh
  Makefile: add LICENSE:.DONTCARE to workaround mam
02-08-11 iffe.sh: provide defaults for LD_* additions
02-08-07 ratz.c: change -m to use * instead of non-portable inverse video
02-07-17 mamprobe.sh: close tmp file in trap before rm for cygwin
  package.sh: fix "type" to handle i1586 (P4)
  package.sh:
 add the view action
02-06-28 package.sh: handle multiple packages for release action
02-06-27 package.sh: catch sol*.sparc=>sol*.sun4 when CC=gcc
02-06-14 package.sh: fix admin_action to not include qualifiers
  package.sh: fix help/html doc typo
02-06-11 package.sh: fix ditto update doc to `PACKAGEROOT field matching *:*'
02-06-07 WWW.mk: change substitute $("\n") to \n
02-06-06 package.sh: clarify output streams for help/html
02-05-22 mamake.c: fix executable file check to use (S_IXUSR|S_IXGRP|S_IXOTH)
02-04-04 package.sh: fix update to differentiate *.sun4 and sun4
02-03-27 package.sh: yacc/bison warning only if both missing
02-03-24 mamake.c: all shell actions wrapped with -c to avoid #! problems
02-03-23 package.sh: recover $PACKAGEROOT/bin/package if not in INIT package
  package.sh: precheck $CC, not `cc'
  package.sh: fix install to use pax -ps to preserve set-uid/gid
  package.sh: fix install to use list.installed for existing files only
02-03-17 package.sh: fix PAX initialization
 that was sometimes omitted for read
  package.sh: fix update delta sync fetch
02-02-14 iffe.sh: fix macro{ }end docs to include "
  iffe.sh: add dfn to extract #define from headers

iffe.sh: handle nxt #include ok but no line sync
iffe.sh: drop local header clash logic
iffe.sh: add -X, --exclude=dir to exclude -I dirs
iffe.sh: lcl,nxt now generate <...> headers instead of "..."
package.sh: admin.db root dir matching -* disables host
package.mk: fix package.src.pat typo -- too many)
package.mk: add { :COVERS: :DESCRIPTION: :REQUIRES: }
package.sh: handle { :COVERS: :DESCRIPTION: :REQUIRES: }
Makefile: move proto.c generation to the proto component dir
02-02-02 execrate.sh: add for .exe challenged win32 systems/commands
mamprobe.sh: add STD* commands/flags
mamake.c: update mamprobe info when older than mamprobe executable
package.sh: move ed/ex workaround to mamprobe.sh
package.sh: fix `host type' bug that incorrectly assumed sun4 for sol
package.sh:
add execrate(1) hooks for challenged systems
package.sh: add check for { cc ar nm yacc/bison } before make
ratz.c: fix "rb" vs. "r" macro tests
iffe.sh: add nxt, similar to lcl but defines _nxt_foo for #include
iffe.sh,package.sh: remove vaibale from sccs,cvs ident strings -- duh
02-01-24 C+probe: check CC.DYNAMIC to handle cc that accept but ignore -B*
iffe.sh: handle 'mem struct.a.b'
02-01-22 iffe.sh: cache (internal) `foo vs. struct foo' test results
package.sh: uts.370 => uts.390
02-01-18 package.sh: fix uts hosttype
02-01-17 package.sh: add 'results failed ...' to list failures only
package.sh: change ARCH internal var to all_types to avoid env conflict
iffe.sh: fix hdr/lib precheck that missed some -- ouch
iffe.sh: fix noexecute test that forgot to check compile first!
02-01-15 ratz.c: fix path[] type typo
02-01-01 package.mk: tighten license search
02-01-08 package.sh: `pwd` => ${PWD:-`pwd`}
package.mk: expand license file pattern match
02-01-04 iffe.sh: fix
`exp name "value"' bug that duped "value"
iffe.sh: fix initial <sys/types.h> check to honor --config
01-12-25 iffe.sh: fix bug where -o file restored old file
01-12-23 package.mk: uniq the closure lists
01-12-07 ratz.c: fix --meter to retain paths containing " -- "
01-11-30 ratz.c: use sear_system() to execute; should work on all windows
01-11-28 ratz.c: fix sear_rm_r() to check SetCurrentDirectory() status
01-11-26 ditto.sh: drop n+=v for ksh compatibility
01-11-21 ditto.sh: add rsync script replacement [hey, it works!]
package.sh: add [ditto]:directory notation to admin.db
01-10-31 package.sh: handle *.sum paths with embedded space
package.sh: change executable() to onpath()
package.sh: executable([!] foo) replaces test [!] -x foo (.exe hack)
package.sh: add os2 fix to `host type'

mamake.c: add .exe hack
iffe.sh: fix intrinsic function lib test
mamprobe.sh: update pic probe to match make.probe for linux.ia64
01-10-30 package.sh: make action skeleton view now checks subdirs
01-10-20
package.sh: don't recurse into leaf dirs matching $MAKESKIP
package.mk: tarball package.notice replaces `license accepted' prompt
package.sh: eliminate `license accepted' prompt
package.sh: add update to download latest from a url
package.sh: use builtin arithmetic when we know its ksh
iffe.sh: unkown -> unknown
01-10-18 package.sh: convert to YYYY-MM-DD delta releases instead of NNNN
package.mk: convert to YYYY-MM-DD delta releases instead of NNNN
ratz.c: fix -m for paths containing \f\n\r\v
01-10-16 ratz.c: _SEA_* => SEAR_*
ratz.c: preserve stdin for sear_exec()
ratz.c: add recursive sear_rm_r() to sear_exec() tmp dir cleanup
01-10-10 mamprobe.sh: add mam_cc_SHELLMAGIC
package.sh: add nfs wakeup call to admin to avoid stale file handles
01-10-04 cc.darwin.ppc: -flat_namespace is not longer the default (huh)
01-10-01 package make: prepend $INSTALLROOT/bin/ok to PATH
package read: save cpy of bin/package when reading the INIT package
mamprobe.sh:
allow cc path with optional arguments
01-09-24 Makefile,package.sh: add $INSTALLROOT/bin/.paths initialization
01-09-19 package.mk: add recurse to list.package.*
package.sh: bootstrap build nmake with _BLD_STATIC for _WIN32
01-09-11 ratz.c: add _SEA_SKIP & _SEA_COMMAND for self extracting archives
01-09-07 package.mk: fix output capture to not generate files names with spaces
01-09-07 package.mk: fix delta release number search
01-08-11 package.mk: handle single gz executable packages (e.g., for ksh)
package.sh: fix package install to require nmake only if no *.sum
iffe.sh: drop ancient menu and prompt actions; check ./hdr.h clash
01-07-17 package: fix use cross compile test to generate files in /tmp
01-06-27 ratz: handle hard and soft links if possible
01-06-07 Makefile: fix :MAPLIB: for sco
01-05-31 crossexec.sh: add
iffe.sh: add -x crosstype to run crossexec
iffe.sh: exp test now handles pass{}end fail{}end yes{}end no{}end
package.sh: add package host canon external-host-type-name

package.sh: fix `use USER' lookup for shells that support ~USER
cc.*: add -dumpmachine to dump target HOSTTYPE
01-05-18 iffe.sh: drop $HOME/tmp/t.sh debug trace -- oops
01-05-01 mamake.c: scan() now handles :PACKAGE: foo:command
01-04-26 *.sh: expand [a-z][A-Z][0-9] for non-contiguous character codes
iffe.sh: fix run *.sh for shells that don't $* across . command
cc.mvs.390: recode for /bin/sh

01-04-25 package.mk: include non cc-g variants by default
  package.sh: *[._]* => *?[_.]* for mvs.390 /bin/sh
01-04-24 TEST.mk: no tests for VARIANT=="DLL"
01-04-22 package.mk,package.sh: tarball text members are ascii encoded
01-04-18 package.mk: allow package name to be the same as one of its components
        cc.mvs.390: handle .C .cpp .cxx
        cc.mvs.390: compensate for -o that does not overwrite
01-04-01 regress: fix SAME that just skipped it -- we should regress regress!
  iffe: fix bug that didn't emit _hdr_foo for internal hdr tests
  iffe: fix lcl bug for cc -E
 that doesn't emit line syncs
  ratz: add ascii=>ebcdic conversion for text archive members
  mamake: fix buffer overlap bug that clobbered the probe file path
01-03-17 iffe: handle : separator as first arg
01-03-15 mamake.c,ratz.c,release.c: add <stdlib.h> and <string.h>
01-02-26 iffe.sh: fix bug that omitted runtime #define for `mac' op
01-02-22 cc.ibm.risc: handle SF_CLOSE clash in <sfio.h>
01-02-14 cc.sgi.mips3,cc.sgi.mips4: handle -mips2 -mips3 -mips4 for cross cc
  C+probe: quote "$cc" when its an argument!
  mamake: execute actions with $SHELL, ignored signals back to default
  package.sh: nmake check error output to /dev/null
  package.sh: fix INIT a.out updates for knr cc
  package.sh: package list now handles large tgz dirs
  package.sh: *-ok executables moved to ok/* for *.dll systems
  iffe.sh: change "exec >&-" to "exec >/dev/null" else linux mkdir fails!
  mamake: handle `bind -lx [dontcare]'
01-02-12 ratz.c: fix _PACKAGE_ast includes
  package.sh: $HOSTTYPE env overrides
 if $PACKAGEROOT/arch/$HOSTTYPE/
  package.sh: $CC ^HOSTTYPE=[A-Za-z_0-9.]*$ overrides HOSTTYPE
  iffe.sh: fix dat code that used previous $tmp.exe
  iffe.sh: fix dat code for _DLL imports
01-02-09 iffe.sh: add copy() for shells with the dissappearing here doc bug
01-02-08 Makefile: guard against null $(CC.HOSTTYPE)
01-02-06 Makefile: separate out cc,ld,ldd workarounds (so they will be packaged)
01-02-02 package.sh: fix package use for $INSTALLROOT != */$HOSTTYPE
  package.sh: create intermediate recursion makefiles when needed
  package.sh: add $SECONDS to the DEBUG trace prompt
01-01-01 ratz.c: #ifdef for uwin ncc
  iffe.sh,package.sh: check PACKAGE_PATH for local installations
  package.sh: add psrinfo for osf.alpha host cpu
  package.sh: change pax --meter probe; some hang on /dev/tty
  package.sh: fix `install flat ARCH'
  mamake: eliminate loops from scan order
  C+probe: add probe_verbose -V for aix cc=xlc
  cc.ibm.risc,ldd.ibm.risc: add
  package.mk: list refs to top-level licenses

only
package.mk: add local link table to change log html
00-12-25 package.sh: `no package archives' is a hard error, duh
package.sh: reorder host type logic for lame shells
mamake.c: getcwd => getwd for NeXT -- how about posix==default guys
iffe.sh: really gross workaround for NeXT -lposix stdout null's
iffe.sh: handle cc -E that insists on compiling
00-12-15 iffe.sh: ancient sh function call blows $*; call only when $# == 0
*.sh: `getopts 2>/dev/null` => `(getopts)2>/dev/null` for ancient sh
package.sh: fix LD_LIBRARY*_PATH initialization
cc.next.m68k: add for _POSIX_SOURCE and linker multiply defined syms
00-12-12 ratz: add --meter
package.sh: a few VPATH fixes
Makefile: don't override *.mips* cc if -version not accepted
00-12-11 package.mk: *.inx now contains name=value
00-12-07 package.sh: handle PC netscape . => _ pathname mangle
WWW.mk: .tar.gz => .tgz
00-11-27 package.sh: add checklicense() to do license checks at read time
package.mk: change component
list from preformat to table
00-10-31 package.mk: *.pkg must assert closure
package.mk: add cc- variants to list.package.binary
package.sh: omit dups from package list
package.sh: invalid arg gives one line Usage
package.sh: relax checkaout checks for non-owners
package.sh: package use sets NPROC if not already set or [01]
proto.c: add $(INSTALLROOT)/include/ast hack
00-10-26 WWW.mk: add .SOURCE rhs to :WWWPAGE:
00-10-25 package: fix install
package.mk: add list.install
00-10-22 regress: fix VIEW to skip empty dirs
00-10-19 package.mk: $(PACKAGEROOT)/bin/nmake => $(PACKAGEROOT)/bin/manmake
iffe: validate #define identifiers
00-10-18 C+probe: mac os10 additions
package: add DYLD_LIBRARY_PATH initialization
add ldd.$(CC.HOSTTYPE)
00-10-01 iffe: handle -I* -L* options
00-09-21 mamake: add libxxx and xxx to makefile ordered prereqs
00-09-19 C+probe: add probe_longlong
00-09-11 package: drop manmake and $PACKAGEROOT/bin/nmake
00-09-08 iffe: verfiy that $cc is a C compiler
00-06-14
mamprobe: fix win32.* probe
mamake: fix bug that used lower view path for generation
package: don't clobber $PACKAGEROOT/bin/nmake
00-06-01 C+probe: fix stdinclude *again*
package: fix write delta source to use default pax format
package: add disambiguating bias for sgi.mips3 over sgi.mips4

package.mk: fix for directory content packages lib ast-locale
00-05-01 iffe: fix invalid _LIB_ macro identifier
00-04-11 C+probe: uniq stdinclude and stdlib, fix usrinclude
00-04-01 regress: fix explicit OUTPUT bug that didn't compare with expected
00-03-17 package: all archives are .tgz for binary download
package: $(PACKAGEROOT)/LICENSES/* in source and binary archives
package: implement install and verify actions
iffe: add exp, pth file dir ..., fix lib - -lfoo, fix lib - - -la -lb
iffe: -L* must affect LD_LIBRARY* hacks for .exe tests -- yuk
package.mk: add *.pkg :INDEX:
00-03-07 package: add admin action
00-03-06 makefile: install optional make probe override
script C+make+probe.lcl
00-02-14 --- release 1.0 ---
ratz: treat "foo/" as a dir, not a regular file
package: clarify source and binary installation instructions
package: fix so binary packages can install without cc
package: "ratz" now a non-archive package (the only one) for bootstrap
package: handle VPATH=a:b arg
package.mk: "ratz" package adjustments
Makefile: use :PACKAGE_INIT: to support binary INIT packages
WWW.mk: add :WWWALL:
C.probe: fix .so check that let .dll slip through
iffe: fix config sh var assignment for HAVE_member_IN_struct
iffe: fix config sh var assignment for symbol_DECLARED
package: delay PATH export until dll hack exports complete
package: don't forget binary package $(INSTALLROOT)/lib(32|64)
package: add delta change log for source packages
00-02-10 mamprobe: add mam_cc_DLLBIG
package: fix spelling typos
package: add html help output
package.mk: beef up source and binary help => html
00-02-08 package: mkdir man/man[138] in the
new arch to cover MAM bug
00-01-28 package,release: add -rcount to release
package: fix linux "host cpu" and "host rating"
package: copy *.lic to $PACKAGEBIN for "make" and "write binary"
package: fix 'release change log' case match
00-01-24 package: add copyright action
mamprobe: add -D_BLD_DLL to mam_cc_DLL
00-01-11 package: tsort for package write
package: early verification that $CC works
package: add non-interactive command arg for use action
proto: fix -C intermediate mkdir()
mamprobe: unixware.i386 ksh workaround
C.probe: move hosttype to C.probe (with unixware.i386 workaround)
WWW.mk: fix mm2html option quoting
WWW.mk: add .SCAN.mm

WWW.mk: don't force static=1; grab dll's instead
*.sh: fix getopts test to handle botched implementations like osf.alpha
iffe.sh: fix read -r test
99-12-25 iffe: tweak verbose messages
iffe: hand code non-optget getopts parse
iffe: fix bash quoting bug again
iffe: do test -w . after option parse
package: fix PACKAGEROOT
search
99-11-19 --- release 0.2 ---
99-11-19 first working package & friends
99-10-31 change from lib0ast to INIT; add MAM and package bootstrap
hostinfo: gobbled by package
99-10-01 iffe: add --config, yes{...}end no{...}end, fix read -r workaround
99-09-27 iffe: add --all --verbose, --* set options
99-09-22 regress: -v disables long line truncation
99-09-11 WWW.mk: WWWDIR and MM2HTMLINFO are now lists searched in $(HOME)
99-08-11 hostinfo: fix type sgi.mips4
99-06-24 WWW.mk: add
99-06-08 hostinfo.sh: ${TMPDIR:-/tmp}
99-06-07 TEST.mk: add
99-06-01 iffe: add `siz type' for _siz_type == sizeof(type)
99-05-11 hostinfo,iffe,regress,use: long options
99-05-01 C.probe: fix over aggressive stdinclude, e.g., /usr/include/machine
99-04-01 hostinfo: sgi.mips? -o32 and -n32 checks
iffe: check that . is writable
99-03-17 hostinfo: fix for cc not found
dl.c,hello.c,m.c: headers in conditionals to force .DONTCARE
C.probe: extra check for include dirs pulled in by <sys/types.h>
99-03-03
regress: add `UNIT - ...' for extra args
Makefile: add (_hosttype_) prereq for cc
99-01-23 hostinfo: tweak rating, use /proc/cpuinfo if there
99-01-11 C.probe: shlib before lib, /usr before /
98-12-25 iffe: work around win32.alpha intrinsic clash with -O
98-11-11 regress: fix UNIT PATH lookup
98-11-01 regress: add PROG
98-10-01 hostinfo: add unixware.*
use: export PACKAGE_*
98-08-11 C.probe: add /usr/include check (for sco CC)
hostinfo: handle uwin uname update
98-05-01 regress: fix bug sometimes didn't list last test
98-04-01 hostinfo: add cc path arg
hostinfo: now works with /bin/sh
Makefile: strengthed -lm probe
98-01-23 Makefile: check for -ldl -lm
C.probe: handle gcc -v -E phony include dirs
iffe: fix lcl by dropping sort -u -- we need the real first

iffe: `mem x' to test if x is a non-opaque struct
98-01-11 $(INSTALLROOT)/lib32 for sgi.mips3
$(INSTALLROOT)/lib64 for sgi.mips4
add cc.hp.pa
98-01-01 cc.sgi.mips*: turn off ld library multiply defined
97-10-11
regress: add VIEW function for locating data
97-10-01 Makefile: -ldl test moved to libdll Makefile
97-08-11 regress: add MOVE
regress: add SAME
regress: use getopts
regress: `EXEC' repeats previous test
97-07-17 use: tweak PATH and LIBPATH bootstrap order
iffe: fix lcl bug that botched pathnames with embedded spaces
97-06-12 iffe: add npt `needs prototype' test
97-05-09 hostinfo: mvs.* => mvs.390
Makefile: cc.$(_hosttype_) workaround installed here
iffe: fix nolink{ ... }end
iffe: add [no]static{ ... }end for static link test
C.probe: _probe_PATH => _probe_export which must be eval'd
97-04-01 use: _RLD_ROOT set too
97-03-17 mm2html: changed inner loop
mm2html: handle .if|.ie|.el, .so
mm2html: handle different man styles
mm2html: differentiate mm/man in some non-obvious cases
hostinfo: r5000 is not mips4
97-02-14 hostinfo: validate type with cc
96-12-25 C.probe: uwin tweaks
iffe: use `...` instead of $(...) for alpha /bin/sh
iffe: fix `typ' divide by 0
iffe:
`lcl' now drops X: prefix
iffe: +l* -> -l*
iffe: eval around ${...#%...} for bsd /bin/sh
use: add sgi.mips LD_LIBRARY<abi>_PATH variants
use: add -e to list exports
iffe: lcl leaves leading [a-zA-Z]: for dos
iffe: fix no{link|output|execute} logic
C.probe: don't automatically add /usr/include for non-hosted compilers
C.probe: don't automatically place /usr/include last
C.probe: check gcc style -v -E for stdinclude usrinclude
96-11-28 iffe: check BASH_VERSION for IFS botch
iffe: typ long.xxx only if sizeof(long xxx) != sizeof(xxx)
hostinfo: fix sgi.mips[234] tests
hostinfo: fix ncr.i386 tests
96-10-31 iffe: work around old bsh here doc bug by running separate sh
96-10-11 iffe: *.iffe and *.iff for iffe src files
hostinfo: tighten sgi.mips cpu type check

96-10-01 C.probe: add probe_libdir to catch alpha /usr/shlib
96-09-17 iffe: fix typ bug that failed for single id types!
96-08-31 hostinfo: handle recent sgi hinv cpu changes
96-07-17 make sure sizeof(long
 xxx)>sizeof(xxx) for typ long.xxx
96-05-09 C.probe: drop multiple / in stdinclude
96-02-29 use: package root must have bin and lib subdir
  mm2html: add
  C.probe: probe_members += -whole-archive for gcc
  iffe: add + fix the blasted `...'...\\...'...`
96-01-31 use: add pkg dir
  hostinfo: add tandem
96-01-01 hostinfo: windows_nt|windows[0-9][0-9] -> win32
95-11-24 hostinfo: linux-aout.* for non-elf linux
95-11-11 use: add aix LIBPATH
95-10-11 hostinfo: no args prints type
95-08-11 use: add
95-05-09 save original PATH in _probe_PATH
  beef up library dir probe
95-04-01 use c source suffix if it still preserves the dialect
  add hostinfo
  add lib/hostinfo/typemap user type map
  add sol.sun4 cpu count
  fix C.probe to properly handle C/C++ combined compiler drivers
  add NeXT to hostinfo
  bummer: mach has /usr/bin/hostinfo
95-03-19 fix dialect executable test
95-03-19 --- release 0.0 ---

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/RELEASE
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*                                                                      *
*              David Korn <dgk@research.att.com>                       *
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/keywords.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/sleep.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/msg.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/name.h
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/shtable.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/misc.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/testops.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/lex.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/name.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/trap.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/parse.c
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/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/xec.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/nvdisc.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/getopts.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/streval.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/print.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/edit.h
*

/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/arith.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/edit/emacs.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/typeset.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/include/io.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/limits.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/path.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/timers.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/cd_pwd.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/bltins/alarm.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/init.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/edit/edit.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/macro.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/args.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/sh/nvtype.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/data/builtins.c
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*/

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/crypt.c
No license file was found, but licenses were detected in source scan.

/*
* SHA-1 in C
* By Steve Reid <steve@edmweb.com>
* 100% Public Domain
*
* Test Vectors (from FIPS PUB 180-1)
* "abc"
*   A9993E36 4706816A BA3E2571 7850C26C 9CD0D89D
* "abcdbcdecdefdefgefghfghighijhijkijkljklmklmnlmnomnopnopq"
*   84983E44 1C3BD26E BAAE4AA1 F95129E5 E54670F1
* A million repetitions of "a"

```
*   34AA973C D4C4DAA4 F61EEB2B DBAD2731 6534016F
*/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-sha1.c
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```
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*             A copy of the License is available at              *
*        http://www.eclipse.org/org/documents/epl-v10.html         *
*        (with md5 checksum b35adb5213ca9657e911e9befb180842)        *
*                                                      *
*           Information and Software Systems Research
          *
*                      AT&T Research                       *
*                     Florham Park NJ                      *
*                                                      *
*             Glenn Fowler <gsf@research.att.com>                *
*                                                      *
***********************************************************************/
/*
 * synthesize wait() status from shell status
 * lack of synthesis is the standard's proprietary sellout
 */
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/system.c
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```

```
*       (with md5 checksum b35adb5213ca9657e911e9befb180842)        *
*                                                                   *
*            Information and Software Systems Research
            *
*                    AT&T Research                          *
*                    Florham Park NJ                        *
*                                                                   *
*              Glenn Fowler <gsf@research.att.com>                  *
*                                                                   *
********************************************************************/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dlfcn.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllfind.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dlllib.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllerror.c
*
 /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllnext.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllopen.c
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*       (with md5 checksum b35adb5213ca9657e911e9befb180842)           *
*                                                                      *
*            Information and Software Systems Research
            *
*                    AT&T Research                          *
*                    Florham Park NJ                        *
*                                                                   *
*              Glenn Fowler <gsf@research.att.com>                  *
*                                                                   *
********************************************************************/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllscan.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllcheck.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dlllook.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dll_lib.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libdll/dllplug.c
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comp/omitted.c: revert to the open source license
00-09-21 astlicense: handle ' and
astlicense: add noncommercial
astlicense: fix type=special but with non-null notice
00-01-24 astlicense: handle type=verbose, license.notice, author=*
99-11-11 astlicense: add
07-09-21 sum-sha1.c: reinstate Steve Reid's public domain implementation

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/lib/package/ast-ksh.html
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This is a list of changes that have been made since the 11/16/88 version
of ksh.

1. New features in 12/28/93
  a. Associative arrays. The new version of ksh supports both
     associate arrays and the older indexed arrays with the same
array syntax. A new -A option of typeset is used to declare
an array to be associative. As with indexed arrays, $name is
equivalent to ${name[0]}. The prefix operator ! was added
to the parameter expansion syntax to expand to the list of
indices. For example, ${!name[@]} expands to the list of array
indices for variable name.

  b. Several additions have been made to shell arithmetic:
1. The shell now performs floating point arithmetic. The
    typeset options -F and -E have been added for floating
    point and scientific notation respectively.
2. The prefix and postfix ++ and -- operators.
3. The comma and ?: operators.
4. The math library functions.
5.
 An arithmetic for statement of the form
 for ((expr1; expr2; expr3))
 do ...
 done
6. Integer arithmetic extended up to base 64.

  c. Some additions to the macro expansion syntax have been made
to specify substrings and sub-arrays:
1. ${name:expr} expands to the substring of ${name} starting at
    the character position defined by arithmetic expression expr.
2. ${name:expr1:expr2} expands to the substring of ${name} starting
    at expr1 and consisting of at most expr2 characters.

3. ${name[@]:expr} expands to the values of ${name[@]} starting at
   the element defined by arithmetic expression expr.
4. ${name[@]:expr1:expr2} expands to at most expr2 values of
   ${name} starting at expr1.
5. ${@:expr} expands the positional parameters starting at expr.
6. ${@:expr1:expr2} expands to at most expr2 positional parameters
   starting at expr1.
7. ${!name} expands to the name of the variable named by name.
   It will expand to name unless name is reference
variable.
8. ${!name[sub]} expands to the name of the subscript of the
   given variable. If sub is @ or * the list of subscripts
   is generated.
9. ${!prefix*} and ${!prefix@} expand to the list of variable
   names beginning with prefix.
10. The substring operators, # and % can be now be applied
    with aggregates (@ or *) and are applied to each.
11. ${name/pattern/string} expands to the value of name with
    the first occurrence of pattern replaced by string.
    With aggregates (@ or *) this operation is applied to each.
12. ${name/#pattern/string} Same as above but the pattern
    to be replaced must match at the beginning.
13. ${name/%pattern/string} Same as above but the pattern
    to be replaced must match at the end.
14. ${name//pattern/string} expands to the value of name with
    the each occurrence of pattern replaced by string.
    With aggregates (@ or *) this operation is applied to each.

d. The name space for variables has been extended.
The character '.'
can be used at the beginning of a name, and to separate identifiers
within a name. However, to create a name of the form, foo.bar,
the variable foo must exist. The namespace starting with .sh
is reserved for shell implementation variables. Exported
variable cannot contain a '.'.

e. Compound assignments. The assignment syntax, varname=value,
has been extended to allow assignments of the form
varname=(assignment_list). As elsewhere in the shell
spaces or tabs are optional around the parentheses, and
no space is permitted between the varname and the =. The
assignment_list can be one of the following:
1. A list of words. In this case each word is expanded as
   in a for list and the resulting items become elements
   of the indexed array varname.
2. A list of subscript assignments in the form
   [subscript]=value. In this, these elements become
   elements of the associative array varname.

3. A list of assignments; simple or
compound. In this
case, each assignment is made to varname.name, where
name is the name of the enclosed assignment.
4. Assignments in the form of readonly or typeset
statements. In this case each assignment is made as
in 3 above, and the attributes are given to the
corresponding variable.
In case 3 and 4 above, the value of "$varname" after
the above assignment is (assignment_list), where the
assignment_list produced would reproduce all of the
variables under varname.*.

f. Function names of the form variable.action (called discipline
functions) can be defined where variable is any valid variable
name and action is get, set, or unset. The function variable.get
is invoked each time the variable is referenced. The set
discipline is invoked each time the variable is assigned to.
The unset discipline is invoked when a variable is unset.
The new variables .sh.name, .sh.subscript, and .sh.value are
defined inside the function body. Other shell
extensions
may have their own set of discipline functions.

g. The compound command !, which negates the return value of the
following pipeline, has been added.

h. On systems that support dynamic loading with dlopen(), it is
now possible to add built-in commands at runtime with the
a builtin command named builtin.

i. The following builtins have been added:
1. command name [...]
2. sleep [decimal-seconds]
3. builtin [-ds] [-f file] [name...]
4. getconf name [pathname]
5. disown [job...]

j. An addition format for literal strings, $'....' can
be used where ever literal strings are valid. The string
inside the single quotes will be converted using the ANSI-C
escape conventions. Additionally, the escape sequence \E
expands to the escape character (default \033) whenever ANSI-C
escape sequences are recognized.

k. A typeset -n option has been added which causes the value of a
variable to be treated as a reference to another variable so that
variables

can be indirectly named. For example, if $1 contains
the name of a variable, then typeset -n foo=$1 causes the variable
foo to be synonymous with the variable whose name is $1. A builtin
alias, nameref='typeset -n' has been added to aid mnemonics.
Reference names cannot contain a '.'. Whenever that portion of
a variable up to the first '.' matches a reference name, the
reference value is substituted. For example, with nameref foo=.top,
then ${foo.bar} is equivalent to ${.top.bar}. When used as the
index of a for or select loop, each assignment causes a
new name reference to occur.

l. The KEYBD trap has been added which is triggered when a key
or escape sequence is typed while reading from the keyboard
in an edit mode. This, combined with some new variables
makes it possible to program your key bindings in ksh.

m. New variables have been added:

1. FIGNORE defines a set of file names to be ignored in each
   directory when performing pathname expansion,
replacing
   the rule that requires that a leading . be matched explicitly.
2. Variable sh.edchar contains the value of the keyboard character
   that has been entered when processing a KEYBD trap. If the value
   is changed as part of the trap action, then the new value replaces
   the key or keys that caused the trap.
3. Variable sh.edcol is set to the character position of the cursor
   within the input buffer during a KEYBD trap.
4. Variable sh.edmode is set to the escape character when in vi
   insert mode.
5. Variable sh.edtext is set to the contents of the input buffer
   during a KEYBD trap.
6. HISTEDIT is checked before FCEDIT. FCEDIT is obsolete.
7. HISTCMD is the number of the current command in the history
   file.
8. Variable .sh.version is set to the version string for
   this shell.
9. Variable .sh.name is set to the name of the variable
   that that was referenced or assigned to when executing a get
   or set discipline function.
10. Variable .sh.subscript is set to the subscript for the variable
   that was referenced or assign to when executing a get or
   set discipline function.
11. Variable .sh.value is set to the new value for the variable
   that was assigned to when executing the set discipline function.

n. New invocation and set -o options have been added:

1. set -o notify (or set -b) causes background completion messages

to be displayed as soon as the job completes.
2. There is a compile time option named KIA which enables
creation of a relational database for commands, variables
and functions defined and referenced by a script. The
option -I <filename>, causes the database to be generated
in <filename>. The database format can be queried via
the cql command.
o. ksh93 can read and evaluate pre-compiled scripts generated by
a separate program called shcomp.
p. More work on internationalization has been added:
1. The decimal point character
is processed per locale
2. A $ can be placed in front of each string to indicate
that the string needs translation but is otherwise ignored.
This means that if a message catalog of all $"..." strings
is generated, then a program such as print $"hello world"
could display "bonjour monde" in the french locale.
q. Backreferences have been added to pattern matching. The sequence
\d, where d is a digit from 1-9, matches the same string as
the d-th previous parenthesis group. Backreferences
can be used within patterns, and within replacement strings
with any of the ${name/...} operators.

2. Changes made in 12/28/93
a. The output format of many commands has changed as follows:
1. System error messages are displayed whenever a failure
is caused by a system call.
2. The exit status has changed in many cases:
a. USAGE messages cause an exit status of 2.
b. Commands not found cause exit - 127.
c. Command found, but not executable
- 126.
d. Terminated because of signal - 256+sig
3. The output of values from built-ins that contain special
characters are quoted in a manner that then can be re-input.
4. The trace output puts quotes around the output so that it
can be reused as input.
5. The output for trap is in a format that can be reinput the
the shell to restore the traps.
6. kill -l lists the signal names without numbers as
required by the POSIX standard.

b. The following changes have been made to shell functions:
1. The semantics of functions declared with name() has changed
to conform with the IEEE-POSIX 1003.2 standard. In particular,
these functions are executed in a dot script environment rather
than a separated function environment so that there are no
local variables and no scoping for traps.

2. Functions declared as function name, preserve the old ksh
semantics can be also used as the first argument to the dot (.)
command to have
them executed in a dot script environment.

c. The command search rules have changed as follows:

1. Special built-ins (those with a dagger in front of them) are
executed first.
2. Functions are executed next.
3. Other built-ins that do not require an executable version
(for example cd and read) come next.
4. If the command name contains a slash, the pathname corresponding
to the command name is executed.
5. If name corresponds to a previously encountered pathname
on the PATH variable, the corresponding command is executed.
6. If the command name does not contain a slash, then the PATH
variable is used to find an executable by that name. If
the directory that the command is found is also contained in
the FPATH variable, then the command treated as a function.
If the shell has a built-in version of the command corresponding
to this command, then the built-in version of this command
is executed. Otherwise, the shell remembers
that pathname
corresponding to this command name and executes this pathname.
7. If the name is not found on PATH, then the directories in
FPATH are searched. If found, then the command is executed
as a function.

d. Built-in commands options now conform to the IEEE-POSIX 1003.2
conventions with some additions. In particular,
name -?
will now print a Usage line for name, except for true, false,
colon, login, newgrp, echo, [, and command.

e. Tilde expansion is now performed as part of the word expansions.
The effect of this is that if word begins with ~ in ${name op word},
it will be expanded unless escaped.

f. Pathname expansion is no longer performed on redirection words
unless the shell is interactive.

g. Changes to shell and options:

1. The -n option has been enhanced to produce more warning and
portability messages.
2. The -C option is equivalent to -o noclobber. Files are
created with O_EXCL when -C is on.

h. The

following changes have been made to [[...]]:
1. A string by itself is equivalent to -n string.
2. -e has been added as equivalent to -a.
3. == has been added as equivalent =.
4. -a and = are now considered obsolete.
5. Arithmetic comparisons are now considered obsolete.

i. kill has been changed as follows:
1. Signal names can be upper case or lower case.
2. Numerical arguments to kill -l cause the given signal names to be displayed.
3. String arguments to kill -l cause the given signal numbers to be displayed.
4. Synopsis changed for getopts conformance.

j. print has a -f format option which is equivalent to the IEEE POSIX printf. Both print -f format, and printf have the following extensions from IEEE POSIX:
1. Floating point formats are supported.
2. Size and precision specifications can be *.
3. The %d option can take an argument after precision to specify the base that the number will be displayed.
4. A %q format can be used to output a string quoted so that it can be re-input to the shell.
5. A %P format can be used to output the shell pattern which corresponds to the give extended regular expression.
6. For numerical fields, the arguments can be arithmetic expressions which will be evaluated.
7. The %n format works as described in ANSI-C.

k. The following changes have been made to fc:
1. It has been renamed hist. fc is now a predefined alias.
2. hist uses ${HISTEDIT:-$FCEDIT}. FCEDIT is obsolete.
3. A new -s option is equivalent to the obsolete -e -.
4. If the first argument refers to a command earlier than the first accessible command, it now implies the first accessible command, so that hist -l 1 lists all accessible history commands.

l. The dot command (.) has changed as follows:
1. The argument can be the name of a function declared as function name. The function will execute without creating a new scope.
2. If there are arguments to the given script or function, the positional parameters are restored to their original value when . completes.

m. The read built-in has been changed as follows:

1. A -A option to read has been added to allow the fields to be read into an indexed array.
2. A -t n option has been added which causes read to timeout after n seconds when reading from a slow device.
3. A -d char option has been added which causes the read to terminate at char rather than at new-line.

n. The trap command has been changed as follows:

1. Trap names can be either upper case or lower case.
2. Trap -p cause only the specified trap values to be displayed.
3. The value of trap in a subshell will be the value in the parent shell until a call to trap which changes the trap settings has been made. Thus, savetraps=$(trap) works as required by the POSIX standard.

o. The exec command has been extended as follows:

1. The -c option clears the environment
first.
2. The -a name option sets argv[0] to name for the program.

p. true and false are built-ins, not aliases to built-ins.

q. test has been modified to conform to the IEEE-POSIX 1003.2 standard when there are three or less arguments.

r. umask -S option displays the mask in a symbolic format.

s. wait now returns the correct exit status of any previous background job that has not been waited for, not just the most recent one.

t. The whence built-in has an option -a which causes all uses for the given command name to be reported.

u. unalias has -a option to clear all the aliases.

v. The times built-in command has been removed. The time reserved word, without a command, gives time cumulative time for the shell and its children. A built-in alias for times should enable scripts using times to continue to run.

w. Command substitution and arithmetic substitution will now be performed for PS1, ENV, and PS4 evaluation in addition
to
parameter expansion.

x. The SECONDS variable now displays elapsed time in floating point seconds with 3 places after the decimal point by default.

y. The getopts built-in now handles the complete libast optget functionality. If any errors have occurred with getopts when it has reached the end of arguments, then the Usage message will be generated from the option string and the exit status from getopts will be 2 rather than 1. The usage message will be stored in the OPTARG variable if the option string contains a leading colon; otherwise it will be printed on standard error automatically.

z. THE ENV file is only processed for interactive shell invocations. In addition, the -x attributes for aliases and functions is ignored.

aa. The built-in edit modes have been changed as follows:

1. The pathname completion and pathname listing options now perform command completion and command listing when applied to a word in the command position.
2. In emacs mode ^N as the first related command after the prompt will move to the next command relative to the last known history position.
3. In emacs mode, successive kill and delete commands will accumulate their data in the kill buffer, by appending or prepending as appropriate. This mode will be reset by any command not adding something to the kill buffer.
4. The control-T of emacs mode has been changed to behave like control-T in gnu-emacs.

bb. The TMOUT variable also sets a limit for select timeouts and default timeouts for read.

4. The source code has undergone significant modification.

a. Much of the code has been rewritten, In many cases this has resulted in significant performance improvement.

b. The code is organized differently. See the README files for more details.

c. Most configuration parameters now get generated using the FEATURE mechanism of nmake. Other options are set in the OPTIONS file.

c. The are several

new compile time options. See the README
file for details. Some of the old ones have been removed.

  d. The install script is a Mamfile that is generated by
nmake and processed by a script that comes with the
distribution.

  e. There are far fewer global names. This should make it
must easier to add built-in commands without worrying
about conflicts.

  f. The code uses the sfio library which makes it possible
to mix with stdio.

  g. The code is written in ANSI C with full prototypes.
The code is based on the IEEE POSIX 1003.1 standard.
The code can be compiled with K&R C and with C++ by
using the ANSI cpp that comes with nmake or running
the code through the proto filter before pre-processing.
This happens automatically with our shipping system.

  h. There is a programming interface for capturing references
and assignment to shell variables. It is also possible
to intercept variable creation and supply the array processing
function for that variable.
 See nval.3 for a description.

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/RELEASE88
No license file was found, but licenses were detected in source scan.

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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/log.c
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*   Information and Software Systems Research   *
*   *
*   AT&T Research   *
*   Florham Park NJ   *
*   *
*   Glenn Fowler <gsf@research.att.com>   *
*   *
***/

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m2.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/db.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/nsl.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-

WW1cjjPZ/src/cmd/INIT/release.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/iconv.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/socket.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/mamake.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/intl.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/p.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m4.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m6.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/dl.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m3.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/gdbm2.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/w.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/hello.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/w2.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/m5.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/gdbm.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/gdbm1.c
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/ratz.c
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The INIT package is required by all but the standalone and self
extracting archive packages. It contains the package command, support
scripts, and utilities. The package command installs binary packages,
makes source packages, and generates new package tarballs.

Source Package Installation Instructions:

(1) Do not install packages as root/super-user. Although some components may
have setuid executables, few must be owned by root. These are best
changed manually when the security implications are understood.
(2) Choose a package root directory and cd to it. This will be a local work
area for all packages.
(3) These instructions bypass the click to download package links on the
download site. If you already clicked, or if your system does not have
curl(1), hurl(1), lynx(1) or wget(1) then use the alternate instructions
for (3),(4),(5) in plan B below. Plan B installs the hurl(1)
script which works with ksh and modern bash. The top level URL is:
URL=http://www.research.att.com/sw/download
(4) If the bin/package script does not exist then run:
test -d bin || mkdir bin
url=$URL/package

```
 (wget -O - $url||curl -L $url||hurl $url) > bin/package
 chmod +x bin/package
(5) Determine the list of package names you want from the download site, then
    use the package(1) command to do the actual download:
 bin/package authorize "NAME" password "PASSWORD" \
  setup source $URL PACKAGE ...
    (Refer to the AUTHORIZATION paragraph on the main download page for
    NAME/PASSWORD details.)  This downloads the closure of the latest
    source package(s); covered and up-to-date packages are not downloaded again unless
    package force ... is specified. Package content is verified using md5sum.
    If the package root will contain only one architecture then you can install in bin and
    lib instead of arch/HOSTTYPE/bin and arch/HOSTTYPE/lib
by running this
    instead:
 bin/package authorize "NAME" password "PASSWORD" \
  flat setup source $URL PACKAGE ...
    To update the same packages from the same URL run:
 bin/package setup source
(6) Build and install; all generated files are placed under arch/HOSTTYPE
    ($INSTALLROOT), where HOSTTYPE is the output of bin/package (with no
    arguments.) name=value arguments are supported; CC and debug=1 (compile
    with -g instead of -O) are likely candidates. The output is written to
    the terminal and captured in $INSTALLROOT/lib/package/gen/make.out:
 bin/package make
(7) List make results and interesting errors:
 bin/package results
    Run the regression tests:
 bin/package test
    List test results and errors:
 bin/package results test
(8) The generated binaries are position independent, i.e., they do not
    contain hard-coded paths. However, commands with related files, like
    file(1) and nmake(1), require the path of the bin directory
to be
    exported in PATH.
(9) You can run the binaries directly from the package root, or you can
    install them in a public root after you are satisfied with the make and
    test actions (requires the AT&T nmake(1) command):
 bin/package flat install DIRECTORY PACKAGE
    This will install in DIRECTORY/bin and DIRECTORY/lib. If you want to
    preserve the arch/HOSTTYPE hierarchy under DIRECTORY then omit the
    flat argument. If you don't have nmake(1) then the following will do a
    flat install:
 cd $INSTALLROOT
 cp -p -r bin lib include DIRECTORY
(10) To summarize, after the first time the download, build, and test cycle
    for the latest source release is:
 bin/package setup source
```

bin/package make
bin/package test

Source Package Installation Instructions -- Plan B:

(3) Create the subdirectory lib/package/tgz and download all package archives
into that directory.
(4) If the bin/package script does not exist then manually read
the INIT
source package:
gunzip < lib/package/tgz/INIT.YYYY-MM-DD.tgz | tar xvf -
Note that some browsers automatically unzip downloaded without warning.
If the gunzip fails try:
tar xvf - lib/package/tgz/INIT.YYYY-MM-DD.tgz
If your system does not have tar(1) or gunzip(1) then download the ratz
source package, compile it, and manually read the INIT
source package:
mkdir bin
cp lib/package/tgz/ratz.YYYY-MM-DD.c lib/package/tgz/ratz.c
cc -o bin/ratz lib/package/tgz/ratz.c
bin/ratz -lm < lib/package/tgz/INIT.YYYY-MM-DD.tgz
(5) Read all unread package archive(s):
bin/package read
Both source and binary packages will be read by this step.

All recorded changes follow.

::::::::: INIT :::::::::

12-07-17 iffe.sh: add C code NOTE("...") to ammend --verbose output
12-06-26 iffe.sh: fix "npt foo" to handle function-like macro foo()
12-06-20 package.sh: use $KSH for rt in "results test"
12-06-15 Makefile: add PLUGIN_LIB to $INSTALLROOT/bin/.paths
and BUILTIN_LIB => PLUGIN_LIB
12-06-15 package.sh: add PLUGIN_LIB to $INSTALLROOT/bin/.paths and BUILTIN_LIB => PLUGIN_LIB
12-06-13 package.sh: handle admin.db column output
12-06-08 iffe.sh: fix 12-06-06 typo
12-06-06 iffe.sh: check for -l* in reverse and accumulative order (e.g., for -last & -lm)
12-06-04 package.sh: always check $INSTALLROOT/lib/package/profile
12-05-31 Makefile: ID=ast; $(INSTALLROOT)/prototyped.h => $(INSTALLROOT)/$(ID)/prototyped.h
12-05-28 iffe.sh: api foo YYYYMMDD => FOOAPI(rel) test macro
12-05-24 package.sh: change admin.db comment => owner attributes
12-04-25 ratz.c: add sear -k option to keep installation tmp dir on exit
12-04-17 package.sh: skip sh version logic for ``use''
12-04-17 cc.ibm.risc*: _LARGEFILE64_SOURCE => _LARGE_FILE_API moved to libast/features
12-04-09 cc.ibm.risc*: speak aixese for _LARGEFILE64_SOURCE
12-02-29 cc.darwin.i386*: handle default cc vs kernel bittedness
12-02-29 C+probe: add __TIMESTAMP__ to the nopredefined list

12-02-29
package.sh: don't assume grep -q or /usr/local/lib in LD_LIBRARY_PATH
12-02-29 package.sh: fix ksh vs -lcmd compatibility checks
12-02-23 iffe.sh: checkcc() before checkread() for sensible diagnostics
12-02-14 package.mk: { --clobber --compare --link=lib*.a* } for --mam=static
12-02-14 package.mk: export LICENSEFILEDEFAULT instead of LICENSEFILE
12-02-14 package.sh: handle @(cc|ld).${HOSTTYPE}* intercepts
12-02-07 package.sh: add { clean clobber } actions
12-02-02 regress.sh: fix ulimit -c defaults for --nokeep
12-01-18 regress.sh: add INPUT|OUTPUT|ERROR -e 'filter' to filter before comparison
12-01-21 package.sh: fix `admin make' bug that created unused $INSTALLROOT/lib
12-01-21 Makefile: :PACKAGE: license=ast -- oops
12-01-20 cc.darwin,cc.mvs.390: tmp=/tmp/cc.${USER:-$LOGNAME}.$$.err
12-01-12 package.sh: add admin make share closure to handle alternate HOSTTYPEs
11-12-13 iffe.sh: add /*<NOSTDIO>*/ test code comment to disable default #include <stdio.h>
11-11-11 C+probe: test for .so
before .sl
11-10-26 package.sh: don't forget about *.pkg for admin update
11-10-18 cc.*-icc: update and add more
11-10-11 package.sh: handle package make|view when no source installed
11-09-11 package.sh: count admin '*** termination code' errors
11-08-31 mamake.c: add -e, ignore use recursive prereq timestamps
11-08-29 iffe.sh: add ``set stdio try1.h - try2.h ..."
11-08-29 iffe.sh: trap EXIT => trap 0 for ancient sh
11-08-11 iffe.sh: handle ancient sort that doesn't have -k
11-06-01 make.probe: add more /lib64 logic
11-05-01 package.sh: fix admin ditto to sync LICENSES too
11-03-25 package.sh: initialize { $SED $TR } before first use!
11-03-21 package.sh: fix vpath probes
11-03-17 iffe.sh: fix cleanup to rm $tmp* instead of $tmp*.*
11-02-24 package.sh: change curl usage to "curl -L ..."
11-02-11 package.sh,C+probe,make.probe,mamprobe.sh: add ###.*archiac.*###
11-02-02 Makefile: add :MAPLIB: check for ancient -lw
11-02-02 make.probe: handle -print-multi-directory => 64 => /usr/lib64
/lib64
11-02-02 package.sh: HOSTTYPE=*,*cc*[,-*,...] sets CC [and CCFLAGS]
11-02-02 make.probe: handle gcc $ORIGIN link but exec failure -- gee thanks
11-01-25 cc.hp.ia64: bundled cc is a pile of shaving cream
11-01-07 iffe.sh: check debug==3 for is_hdr() failure
10-11-22 ditto.sh: fix timing problem between |& and exec &p
10-11-10 package.sh: fix cc cross compile check to use checkcc absolute path
10-10-10 package.sh: list main env vars at start of make action
10-10-10 ratz.c: tweak widnows delays
10-09-10 ratz.c: add _SEAR_ARGS for _SEAR_EXEC
10-09-01 package.sh: fix ratz from source logic
10-08-25 package.mk: consolidate license file search in .package.licenses.
10-08-22 ratz.c: run sear bootstrap command detached
10-08-20 C+probe: version_stamp only if version_flags works

10-08-17 package.sh: unset makerules *DIR variables in env
10-08-15 package.sh: "make" action now lists some env values
10-08-11 mktest.sh: add "DO command ..."
10-07-27 rt.sh: handle "rt X=Y ..."
10-06-29 ratz.c:
non-option sear args passed to sear_exec()
10-06-25 iffe.sh: "api" op changed to not do "map-libc" type mappings
10-06-25 package.sh: "force admin ditto" => no ditto --update option
10-06-22 C+probe: handle cc that require .[ci] input for version info
10-06-21 ditto.sh: change default remote access to ssh (about time)
10-06-12 regress.sh: DISGNOSTICS [1 | 0 | pattern] and fix EXIT for all
10-06-09 package.sh: add AT&T to usable nmake check
10-06-06 iffe.sh,iffe.tst: add { api ver } ops
10-04-22 package.sh: update "html binary|source" NAME/PASSWORD info
10-04-15 iffe.sh: don't forget candidate headers for hdr|sys!
10-04-11 WWW.mk: disable man page metarule -- now done by admin-man(1)
10-02-14 package.sh: $CC verification needs $INSTALLROOT/bin in PATH
10-02-11 package.sh: fix package admin make report error count
10-02-02 package.sh: fix write binary bug that did scp on local fs
10-02-02 package.mk: up to date binary targets must still be in PACKAGE.*.lst
10-01-01 package.sh: fix
premature $INSTALLROOT/bin during cross compile check
10-01-01 make.probe: handle ["'] in CC.VERSION.STRING
09-12-04 iffe.sh: add "opt name" to check for name in $PACKAGE_OPTIONS
09-11-30 mktest.sh: change RESET to STATE.RESET to make it global
09-11-14 make.probe: use gcc { -print-multi-directory -print-search-dirs }
09-11-11 package.sh: re-order and combine cc checks
09-10-27 C+probe,make.probe,probe.win32: add CC.SUFFIX.DEBUG
09-10-21 iffe.sh,Makefile: test -e is not in ksh88!
09-10-06 iffe.sh: handle cc -E #error with 0 exit status (sgi)
09-10-06 package.sh: stub in ar intercept checks -- not used yet
09-10-06 ar.ibm.risc: add ar intercept because some aix require -Xfoo first!!
09-09-24 regress.sh: fix UMASK logic to create test support files before umask
09-08-28 release.c: change docs to mention stdin if no file operands
09-08-24 package.sh: fix isascii() bug that failed on od(1) trailing space
09-08-20 make.probe: add CC.SHARED.NAME
09-08-20 regress.sh: add { JOB CONTINUE EXITED
KILL FIFO }
09-08-11 package.sh: filter lines containing : for package results
09-07-31 make.probe: add CC.AR.ARFLAGS (for aix ar -xany)
09-07-31 package.sh,cc.*: fix -dumpmachine to handle 32/64/* bit options
09-06-24 package.sh: fix admin.db output formatting
09-05-05 package.sh: export dll hackery environment vars
09-05-05 package.sh: handle non-identifier hostnames
09-05-05 mamake.c: pass undefined ${...} identifiers to the shell
09-05-05 mamake.rt: add macro expansion regression tests
09-05-01 iffe.sh: fix output initialization *again*
09-04-28 package.sh: handle admin.db contact field $9

09-04-15 iffe.sh: add implicit "ini" op to initialize io for subsequent ops
09-03-31 regress.sh: EXPORT before test => global ENVIRON[]
09-03-26 package.sh: test fail pattern is 'fail[es]'
09-03-26 UNIT - ... appends (options) to command line
09-03-19 TEST.mk: x.tst => x only if x is command target
09-03-15 regress.sh: add ${MAIN} for base name of main unit
09-03-10 TEST.mk: add .SOURCE:tests if
tests is a dir
09-03-03 regress.sh: allow command line unit to override UNIT
09-03-03 mktest.sh: handle IO == $'\n'
09-02-02 package.sh: delay $INSTALLROOT/bin/.paths generation until mamprobe runs
09-01-30 cc.mvs.390: c89 balks at [()] in -Dname="..."!
09-01-27 package.sh: add isascii() to use ratz instead of tar
09-01-20 hurl.sh: add --size=bytes option
09-01-08 TEST.mk: add test.* prereqs, multiple arg lists with :T=*: binding
09-01-03 regress.sh: fix UNIT to allow command line override
09-01-03 mktest.sh: handle TWD
08-12-24 package.sh: fix cross-compile HOSTTYPE logic
08-12-15 package.sh,hurl.sh: handle http codes { 301 302 303 }
08-10-16 make.probe '-fno-stack-protector -fno-stack-protector-all' to cop out!!
08-09-30 rt.sh: fix ksh93 regression test signal count
08-09-26 regress.sh: ignore SIGPIPE for SET pipe-input
08-09-24 package.sh: package only test foo => make --recurse=only recurse tests foo
08-09-20 make.probe: handle another /usr/bin/file shared lib description
08-09-20
regress.sh: add --pipefail for SET pipe-input ...
08-09-17 Makefile: add gdbm1.c for <gdbm-ndbm.h>
08-09-10 make.probe: add CC.NOPROTECT
08-08-08 mktest.sh: add --width=width
08-08-05 dbm.req: favor sleepycat ndbm compatibility
08-08-04 C+probe: fix stdlib initialization logic
08-06-24 package.sh: fix $INSTALLROOT/bin/cc intercept time stamp file typo
08-06-20 TEST.mk: make the localyunit before *.rt => *.tst -- doh
08-06-20 mktest.sh: prepend $PWD onto PATH for local units -- doh^2
08-06-11 regress.sh: fix bug that skipped the last test
08-05-20 regress.sh: add --local to put *.tmp dir in local fs
08-05-05 regress.sh: add IF command ... ELIF command ... ELSE ... FI
08-05-01 package.sh: package test => ulimit -c 0
08-04-28 regress.sh: fix EXPORT quoting
08-04-28 regress.sh: fix UNIT set check args too
08-04-24 rt.sh: exit code > 256 => signal termination
08-04-10 C+probe: change probe_so order to check .so last (macos ld workaround)
08-04-01 package.sh: handle multiple admin HOSTTYPEs
per HOST
08-03-28 C+probe: add C++ #include <iostream> (no extension) dir probes
08-03-17 regress.sh: fix trap on EXIT, add terminated note to final tally
08-02-28 make.probe: fix probe_warn to include ld!
08-02-02 make.probe: add CC.RUNPATH to match default -L order

08-01-31 package.sh: check lib64 for LD_LIBRARY_PATH
08-01-31 iffe.sh: tweak ancient /bin/sh workarounds
08-01-28 make.probe: darwin ld export dynamic is -force_flat_namespace
08-01-28 C+probe: handle sgi cc error message but exit 0 botch(es)
08-01-23 package.sh: fix checksum doc typo
08-01-09 C+probe: add __FUNCTION__ to the undef (don't check) list
07-12-14 iffe.sh: add set nooptimize
07-12-03 package.sh: add LC_ALL=C
07-11-27 package.sh: fix overaggressive *.md5 cleanup
07-11-20 iffe.sh: treat exit status >= 250 as normal error with no signal
07-11-05 package.sh: fix write op error count pattern
07-11-05 package.mk: fix $(~req) .ver binding
07-08-11 probe.win32: add cl.exe setuid workaround, CC.VERSION[.STRING]
07-08-01
package.sh: handle 'package read lcl|tgz'
07-05-08 regress.sh: execute basename instead of absolute path for short $0
07-04-27 cc.sgi.mips[34]: for #error to exit non-zero -- a no brainer
07-04-20 mktest.sh: defer to systems without 'grep -q' -- sigh
07-04-11 mamprobe.sh: handle $(CC.*) => ${mam_cc_*}, $(...) => ${...}
07-04-11 make.probe: fix CC.PICBIG probe, default { CC.PIC CC.DLL } to BIG
07-04-04 iffe.sh: prepend ${tst}${ext} to each .c probe
07-03-28 package.sh: fix binary tgz architecture type duplication
07-03-28 package.mk: add binary write PACKAGE.$HOSTTYPE.lst
07-03-28 iffe.sh: add -F header to mac test
07-03-23 make.probe: handle file(1) that returns 'archive' for .so
07-03-22 mamprobe.sh: fix STDED probe for implementations that ignore EOF
07-03-11 package.sh: add nocopyright and tst => nocopyright
07-03-11 package.mk: add copyright=0
07-03-08 C+probe: restore IFS after probe.ini
07-02-26 mamake.c: expand first of ${mam_lib*} for ${AR}
07-01-05 package.sh: fix "admin write
binary" logic
07-01-01 iffe.sh: add "cmd" --verbose trace
07-01-01 iffe.sh: sort => LC_ALL=C sort
07-01-01 C+probe: LC_ALL=C
06-12-22 make.probe: lean on gcc -v for stdlib, but preserve /usr/local!
06-11-23 package.sh: *.md5 are not tarballs -- doh
06-11-23 iffe.sh: add -F, --features=feature-test-header
06-11-11 make.probe: favor lib64 over lib for hosttype==*64
06-10-31 make.probe: add "-ignore-source-dir -iquote" test
06-10-31 iffe.sh: add status{...} code block
06-10-11 regress.sh: fix DO to handle {...} (time for regress.tst?)
06-10-11 package.sh: handle already gunzip'd *.tgz
06-10-06 iffe.sh: add reference for header content tests
06-09-27 regress.sh: fix UMASK to do DO too (duh)
06-09-22 iffe.sh: drop -O for npt tests (for msvc intrinsics)
06-09-14 cc.darwin: drop -O until gcc 4.* gets its act together
06-09-11 package.sh: { cc ld ldd } intercepts check ${HOSTTYPE%.*} too

06-09-08 regress.sh: add PIPE INPUT|OUTPUT for pipe io
06-09-05 C+probe: add { probe_version version_stamp
version_string }
06-09-05 make.probe: add version stamp comment, CC.VERSION[.STRING]
06-08-27 regress.sh,mktest.sh: add UMASK
06-08-25 regress.sh: add -b,--ignore-space,IGNORESPACE
06-08-25 mktest.sh: add IGNORESPACE
06-08-24 mktest.sh: handle \000 in data
06-08-24 regress.sh: handle -f* for INPUT|OUTPUT|ERROR
06-08-16 package.sh: fix 'install flat' logic
06-08-11 rt.sh: handle style=shell %K date format
06-07-17 ratz.c: fix __MVS__ FAR definition
06-07-17 iffe.sh: "header x.h" -- deprecate "include x.h" for .SCAN.iffe
06-07-17 package.sh: differentiate urls vs. assignments
06-06-27 rt.sh: add --failed, --heading
06-06-27 C+probe,TEST.mk,make.probe,mktest.sh,regress.sh: 'ulimit -c 0'
06-06-26 cc.darwin.ppc: handle -lcc_dynamic disappearance
06-06-25 mktest.sh: implement PROG
06-06-11 Makefile: add -ldbm :MAPLIB:, provide public MAPLIB.mk
06-05-06 package.sh: add PACKAGE_admin_tail_timeout
06-05-22 ratz.c: upgrade to zlib-1.2.3
06-05-09 package.sh: fix admin.db docs
06-03-11 package.sh:
fix `package use - command ...'
06-03-05 make.probe: work around pedantic bash 3.1 mismatched " in `.`
06-02-14 package.sh: "results failed test" == "results test failed"
cc.sgi.*: add _AST_cc_OPTIONS parameterization, -OPT:Olimit=0
cc.linux.ia64-icc: add for intel cc
06-02-02 package.sh: freebsd stuck with os version for all arch
06-02-01 package.mk: fix locale logic (tw -d requires dir arg)
06-01-31 package.sh: require $CC only for make|test
06-01-30 package.sh,hurl.sh: use the backwards-compatible --http-passwd
package.sh: add more pdksh => /bin/sh checks
06-01-26 package.sh: wget --http-pass => --http-password
package.sh: fix wget error logic
hurl.sh: wget --http-pass => --http-password
06-01-11 package.mk: pass package.license.class to make --mam too
package.mk: variants=pattern => --variants=pattern
package.sh: darwin rel<=7 => darwin7.ppc
package.sh: freebsd rel<=4 => freebsd4
package.sh: freebsd rel<=5 => freebsd5
05-12-07 iffe.sh: don't emit <stdio.h> if
<sfio.h>|<ast.h> (XXX)
05-12-05 make.probe: disable readonly.exe core dump via ulimit -c 0
05-09-22 mktest.sh: add EXEC [++NOOUTPUT ++NOERROR ++NOEXIT]
05-09-21 mktest.sh: fix --style=shell compare to ignore \r
05-09-12 TEST.mk: all --force to force %.rt regeneration
05-09-05 TEST.mk: regenerate from %.rt only if newer, :SAVE: %.tst

05-08-25 mktest.sh: add
  TEST.mk: add %.rt=>%.tst for mktest
05-08-18 package.sh: 'package host cpu' now checks $NPROC first
05-07-17 iffe.sh: add { define extern include print } ops
  iffe.sh: accept output{...}end output on success only -- doh
05-07-01 package.sh: add TARPROBE for tar B flag probe
05-06-24 package.sh: fix binary read chmod via *.sum
05-06-06 package.sh: fix KEEP_HOSTTYPE logic to handle synthesized types
05-06-01 make.probe: verify that cc_pic works for hosted cc
  cc.lynxos.ppc: make -mshared the default
  package.sh: note $INSTALLROOT/bin/@(cc|ld|ldd) installation
05-05-25 make.probe: add CC.INCLUDE.LOCAL instead of -I- in CC.DIALECT
05-05-24
 iffe.sh: really fix grouping logic -- with tests this time
  package.sh: pipe/socket configuration mismatches => use /bin/sh
05-04-28 TEST.mk: add $(TESTS)
05-04-19 package.sh: package results test uses rt if possible
  iffe.sh: fix 'op var - ... - ...' grouping logic
05-04-15 rt.sh: handle autom4ate style
05-04-11 regress.sh: fix unit name when command line unit also specified
  rt.sh: handle all ast package test output formats
  package.sh: fix make docs for options passed to underlying make
05-04-08 package.sh: cp -p makerules.mo to $OK to preserve mtime
  regress.sh: add "TITLE name" to change TEST output title
05-04-01 rt.sh: add pretty make test + regress.sh wrapper
05-03-29 package.sh: test -e path => test -f path -o -d path
05-03-24 make.probe: fix CC.PICBIG probe to prefer -fPIC over -fpic -- doh
05-03-19 mamake.c: command line name=var also defines name.FORCE=var
05-03-11 regress.sh: unset LC_ALL when LC_* EXPORT'd
  package.sh: old make.out saved in circular make.out.[1-9]

 mamake.c: sync with nmake :W=O:
05-03-01 package.sh: fix flat hierarchy initialization
  package.sh: admin action now properly resets sibling remote logs
  package.mk: relax unknown/unwritten package messages to warnings
  package.sh: handle space in command line name=value
  make.probe: add mvs -Wc,dll,exportall,longname,rent to CC.DLL probe
05-02-24 package.sh: hosttype *.powerpc => *.ppc
  cc.lynxos.ppc,ldd.lynxos.ppc: add
05-02-22 mamake.c: fix { -G --debug-symbols -S --strip-symbols } MAMAKEFLAGS bug
05-02-20 probe.win32: handle /platformsdk mount
05-02-19 package.sh,package.mk: add write tst for tgz in tst subdir
05-02-18 package.sh: accept cc -dumpmachine with 0 or 1 -
05-02-14 package.sh: handle mutiple architectures per host in admin.db
  Makefile,package.sh: honor $INSTALLROOT/bin/.paths overrides
  package.sh: normalize trailing [-_]bits in host type
  iffe.sh: some ksh-compatible shells don't do *(pattern)
05-02-11 iffe.sh: back out 05-01-11 child process stdin

hijack
cc.lynxos.i386: -dynamic instead of -static default
05-02-10 package.sh: cyg usr/doc => usr/share/doc
05-02-08 package.sh: drop -m with pax -- delta bug fixed 2005-02-08
iffe.sh: work around old bash 0<... redirection bug
05-02-06 package.mk: source.tgz: update generated files only when they change
05-02-02 *.sh,*probe: IFS may be unset and { ash bsh } don't on startup -- wow
05-01-11 package.sh: update setup docs to include authorize+password
package.mk: fix .source.cyg final directory edit
package.mk: notice=1 for conspicuous empty NOTICE file
WWW.mk: fix *-index.html installation
filter.sh: retain input file suffix in tmp copy
mamexec.c: fix non-contiguous "exec" bug that skipped lines
iffe.sh: fix candidate lib test to try grouping subsequent libs
iffe.sh: fix child process stdin hijack that skipped input lines
iffe.sh: --shell=osh to force read -r compatibility command
iffe.sh: chop iffe input leading space before # for KnR compatibility
05-01-05 package.sh:
add ${TAR} ${TARFLAGS} and tar B flag for pipes
mamake.c: fix makefile scan to ignore lib*.[hH]
iffe.sh: immunize function/symbol tests from aggressive -O
04-12-28 WWW.mk: add :WWWPAGE: faq.*.mm index generator
04-12-21 ratz.c: make sure tmp dir is writable -- doh
04-12-08 iffe.sh: fix dat test for aggressive -O
04-12-01 iffe.sh: add `include file' to pull in #define's for `exp'
04-11-11 package.sh: default MAKESKIP is "*[-.]*"
04-10-22 ratz.c: change docs to note zlib license
mamake.c: handle --debug-symbols and --strip-symbols
package.sh: make (debug|strip)=1 => --(debug|strip)-symbols
package.mk: add :LICENSE: => package.license.class
mamake.c: fix recursive order logic
04-10-18 package.mk: add :LICENSE:, :OMIT: to omit package subdirs
04-10-11 package.sh: add 'authorize name' and 'password password'
04-10-01 iffe.sh: double check $static link with ! $static
Makefile: add BUILTIN_LIB to $INSTALLROOT/bin/.paths
make.probe: add CC.DIALECT EXPORT={ALL,REF,EXT,DLL}

package.sh: add BUILTIN_LIB to $INSTALLROOT/bin/.paths
04-09-21 package.mk: $(init)$(name) is now an implicit prereq
04-09-09 package.sh: copy makerules.mo to $INSTALLROOT/bin/ok
04-09-01 package.mk,package.sh: rename *.txt => *.README
package.mk: add the runtime package type (no *.[ah])
iffe.sh: fix key test reports
04-08-26 Makefile: { add m2.c m3.c } -lm tests for { frexp[l] ldexp[l] }
04-08-11 package.mk: handle HOSTTYPE for solaris > 9
package.sh: add `checkaout proto' for { make view }
package.sh: check for { md5sum md5 }
iffe.sh: add {if|elif|else|endif} test ...

iffe.sh: add 'exp - expression' and '(expression)'
iffe.sh: add 'name = test ...' user defined macros
iffe.sh: add '! test ...' negation
TEST.mk: add implied { .c .sh } generated prereq
cc.darwin.ppc: handle 10.3 -dylib mess
04-08-01 package.mk: let include handle nested requirements -- duh
04-07-31 package.sh: attempt a second ping before admin assumes host down
04-07-26 package.sh: fix hp.ia64
HOSTTYPE
04-07-23 probe.win32: generalize #include dir order search
04-07-17 regress.sh: add INPUT -x for chmod +x
04-07-01 regress.sh: TMP => TWD
04-06-29 regress.sh: put COMMAND in $TWD too
04-06-21 regress.sh: mkdir -p INPUT and OUTPUT intermediate dirs
TEST.mk: add :TEST: -- to disable .c .sh search
04-06-18 TEST.mk: add .SCAN.tst
04-06-17 regress.sh: TEST returns true if active, false otherwise
regress.sh: add CD to change test pwd from $TWD
04-06-16 regress.sh: add TWD for ./unit.tmp override
regress.sh: DO now flushes previous test
regress.sh: INPUT and OUTPUT handle -f for printf instead of print
04-06-11 package.sh: make sure $INSTALLROOT/bin is in front of $PATH
package.sh: skip nmake if older than 2000-10-31
04-05-20 package.sh: fix arg vs. package parse with - or '' to disambuguate
04-05-11 package.sh: package verbose update lists closure for package setup
package.sh: add src/lib/libardir to nmake proto bootstrap
regress.sh: probe for rm -u vs. chmod -R u+rwx
04-05-01
package.sh: $CC must be C, not C++; allow release command on $PATH
04-04-15 make.probe: check probe_libdir false positives
package.sh: add lib/package/*.lic src package subdirs
package.mk: add mamfile=0 to inhibit Mamfile generation
iffe.sh: config name_DECLARED => HAVE_name_DECL
iffe.sh: fix mac to handle default value
04-04-11 iffe.sh: normalize sed [\\\\/] quoting
04-04-04 package.mk: only checksum generated tarballs
mamprobe.sh: add STDCHMOD
04-04-01 C+probe: set export LANG=C for uniform error messages
make.probe: another CC.STDLIB tweak
package.sh: fix regress core dump pattern, expand [a-z] match ranges
04-03-31 Makefile: add intl :MAPLIB: test
make.probe: fix CC.STDLIB search; drop CC.* path duplicates
04-03-28 iffe.sh: drop unused exec $stdin<&0 dup
04-03-25 Makefile: add iconv :MAPLIB:
package.sh: use ${PING:-ping -c 1 -w 4}, allowing admin.db override
04-03-24 package.mk: add *.md5 checksum for each *.(c|exe|tgz)
package.sh: update base change

on md5 sum instead of size
iffe.sh: adjust case label \ and keyword quoting for ancient /bin/sh
04-03-22 probe.win32: ncc => nld
04-03-19 CONVERT.mk: change the instructions and old source dir default
package.mk: fix recurse=list check
package.mk: add *.md5 checksum for each *.(c|exe|tgz)
package.sh: fix update base/delta/sync existence check
04-03-18 iffe.sh: -d2 does not remove core dumps on exit
04-03-17 package.sh: fix make recurse arg/action order
04-02-29 package.sh: add regress action to compare current and previous tests
package.sh: fix sgi.mips[23] HOSTTYPE test for old irix cc
package.sh: add `export variable ...'
package.sh: admin action now handles host name with non-id chars
package.sh: non-numeric M T W in admin.db disables that action
package.sh: fix admin write binary local vs. shared clash
cc.hp.pa: add _AST_CC_hp_pa_DEFAULT=+DAportable
cc.hp.pa64: sync with cc.hp.pa
cc.ibm.risc: -bnolibpath => -blibpath:/usr/lib:/lib
probe.win32: sync with
make.probe
make.probe: fix last chance dynamic test
make.probe: add hp.pa CC.EXPORT.DYNAMIC -Wl,-E
make.probe: add ibm.risc CC.EXPORT.DYNAMIC -bexpall
make.probe: move probe_dll_def to the end of probe_dll
package.mk: capture subcomponent mamfile recursion
04-02-24 make.probe: strip "..." from cc/ld traces
iffe.sh: add ``set [no]define" to disable macro #define/#undef
04-02-23 make.probe: rework CC.LD search
04-02-14 make.probe: add CC.EXPORT.DYNAMIC for main dynamic sym export
make.probe: resurrect CC.PIC with separate semantics from CC.DLL
make.probe: add CC.SHARED.LD for CC.SHARED linker
C+probe: clear DISPLAY to stifle interactive windows
04-02-11 iffe.sh: handle ``siz void*", add cross{ ... }end
make.probe: add { CC.AR CC.SIZE }, fix cross command search
cc.darwin.ppc: change $cc => $CC for old ksh + libast conf bug
04-02-09 make.probe: drop -nostartfiles from CC.SHARED for C++
04-02-04 package.sh: fix cross compilation bug that mixed binary formats
04-02-02
package.sh: package admin now ditto's bin/package too
04-01-30 cc.sgi.mips3: drop warning 3421
04-01-11 regress.sh: output label#count for tests in loops
04-01-05 regress.sh: fix bug that ignored the first SAME
04-01-04 crossexec.sh: fix typo that did not recognize rcp
03-12-19 mamake.c: add `foolib:foo:libfoo' to recurse()
03-10-11 regress.sh: add EXPORT, export COLUMNS=80 for message consistency
03-09-23 ratz.c: fix tar header number parse bug that skipped to next number
regress.sh: rm cleanup now handles files matching -*
03-09-11 iffe.sh: add unnamed { ... } blocks

regress.sh: add COPY from to, like MOVE but comprison still done
regress.sh: rm -rfu to handle test dirs w/o u+rwx
03-08-14 Makfile: add hello.c to the manifest
03-08-11 package.sh: fix `html binary' generation
03-06-21 package.sh: fix INITROOT initialization bug
package.sh: make sure admin logs exists before tail'ing
03-06-11 probe.win32: fix $(BINDIR) typo that expanded in sh instead of make
cc.mvs.390: return
code 4 yields exit code 3 but its *really* ok
package.sh: fix onpath function global var conflict
make.probe: add CC.DIALECT { GNU -dD }
package.mk: add Mamfile to lcl manifest
03-06-10 package.sh: fix setup action typo that only checked the INIT package
package.sh: *.s390x => *.s390-64
03-06-09 package.mk: add cyg :POSTINSTALL:
03-06-08 make.probe: fix CC.STDLIB logic
hurl.sh: add User-Agent identification
package.sh: tweak source and binary installation instructions
cc.hp.pa,ld.hp.pa: +-Wl,+cdp,${INSTALLROOT}/lib/: drops abs lib paths
ldd.hp.pa: add
03-06-06 package.sh: fix $INSTALLROOT/bin/ldd check
make.probe: add CC.STDLIB verification
03-06-04 make.probe: add +forceread +noforceread
03-05-11 hurl.sh: handle http://host:port/path
03-05-06 package.sh: fix setup action PACKAGEROOT and INIT logic
03-05-05 package.mk: fix cygwin tarball names
03-04-30 package.sh: move (cc|ld|ldd).$HOSTTYPE updates from Makefile
03-04-27 make.probe: fix mvs CC.PREFIX.SHARED "lib"
=> ""
make.probe: add CC.DLL.DIR = $(BINDIR) or $(LIBDIR)
make.probe: add { CC.LD.LAZY CC.LD.NOLAZY CC.LD.RECORD CC.LD.NORECORD }
probe.win32: sync with latest CC.*
03-04-25 mamprobe.sh: add args to `. $makeprobe' for ancient sh
03-04-23 package.mk: fix dup "covered by" licenses
03-04-22 probe.win32: CC.DIALECT += "LIBPP -I-" for all cc's
package.sh: fix admin write binary tarball snarf
03-04-21 package.mk: package covered *.@(pkg|lic) too
03-04-15 package.mk: don't generate incremental archives for lcl
package.mk: add incremental=[source:1 binary:0] archive control
package.sh: generate $INSTALLROOT/bin/cc wrapper for CC != cc
package.sh: admin must ditto lib/package/*.@(pkg|lic) too
mamake.c: ignore time of ignore prereqs
mamake.c: -D2 lists propagated times
03-04-11 package.mk: tidy up cyg tarballs
package.sh: fix old shell clash between get() and $get
03-04-05 package.mk: restore *.inx generation somehow lost during cyg additions
package.sh: add pthread_num_processors_np()

last resort for cpu count
package.sh: use `make believe' to accept mamake generated files
package.sh: handle `make [make-flags] [target ...]'
mamake.c: ignore -e
03-03-21 package.mk: fix cyg old make typo
package.sh: switch to `package setup' instructions
03-03-19 package.sh: add registry checks for `host cpu'
package.sh: `results failed' now lists core dump messages
03-03-17 package.sh: on cygwin verify 'ntsec binmode' in $CYGWIN or die
Makefile: install gcc wrapper if no cc
package.mk: add :DETAILS: { :README: :EXPORT: :INSTALL: :TEST: } ops
03-03-12 package.mk: add :DETAILS: for style-specific details
03-03-11 package.sh: add beta setup/update support
TEST.mk: add (TESTCC) prereq for .sh tests
03-03-07 hurl.sh: add
03-03-06 iffe.sh: fix lib win32 test cygwin vs native incompatibility
iffe.sh: change internal stdio.h guard to handle C++ inline vs. macro
03-03-03 package.sh: check for curl or wget for update
package.sh: add setup action == update read
make
package.sh: fix packageroot() typo that showed up in non ~user shells
mamake.c: treat name+=value args like name=value
mamake.c: add ${var?*|value?match?no-match?}
mamake.c: fix archive vs. dynamic bind logic
03-02-28 package.sh: add the "cyg" (cygwin) package type
package.mk: add "cyg" stubs, :CATEGORY: for category name(s)
03-02-25 mamake.c: add -D4 system(3) debug trace
03-02-24 package.mk: change --mismatch to --corrupt=accept
03-02-14 ratz.c: add _WIN32 setmode([01],O_BINARY) and fopen "rb"/"wb"
03-02-12 Makefile: handle getconf LIBPATH with host pattern
03-01-31 package.mk: fix .lic search
03-01-30 package.sh: handle { INIT ksh nmake } already installed elsewhere
package.sh: admin handles command outside of $PACKAGEROOT/bin
Makefile: install $(INSTALLROOT)/lib/make/package.mk
03-01-28 package.sh: admin remote commands on one line to please syslog
03-01-23 probe.win32: borland and mingw32 tweaks
03-01-22 package.sh: fix $CC test to ignore set -x trace -- duh
03-01-16
ditto.sh: tw --chop on by default
03-01-14 package.sh: use /bin/cp to copy previous binaries to bin/ok/
package.sh: admin now initiates remote exec and copy from local host
03-01-12 package.sh: handle admin "xxx:" default root
03-01-03 probe.win32: add /usr/include/borland path truncation workaround
02-12-10 iffe.sh: add <&$nullin >&$nullout to checkread() $cc
02-12-06 probe.win32: fix inlcude => include typo, add lcc lib
probe.win32: CC.MAKE.OPTIONS = nativepp=0
02-12-04 mamake.c: fix ${foo-bar} to expand foo if defined
02-11-28 probe.win32: add C++ and -I- CC.DIALECT checks

02-11-26 package.sh: package release now checks for second level files
02-11-22 package.sh: update action now uses HTTP/1.0
02-11-21 probe.win32: update the vc include dir test
02-11-20 make.probe: fix CC.LD.ORIGIN typo that expanded make var
02-11-13 packahe.mk: fix list.install => list.installed typo
02-11-12 make.probe: add CC.LD.ORIGIN for a.out origin dir relative dll search
  make.probe: add CC.LD.STRIP
 for link time a.out strip
  package.sh: fix package_use vs. PACKAGE_USE check
02-10-24 WWW.mk: fix bug that required a :WWWBIN: assertion to post
02-10-23 mamake.c: fix unuinitialized time in make()
  ratz.c: fix meter buffer overflow
02-10-20 package.sh: fix lib/probe/C/make/probe update test
02-10-18 probe.win32: update for mingw
  make.probe: add bash workaround to SHELLMAGIC test
  package.sh: work around yet another cygwin hassle
02-10-17 iffe.sh: short circuit id check for *[-+/\\]*
02-10-08 regress.sh: unset FIGNORE to avoid rm . errors
  package.sh: unset FIGNORE to avoid rm . errors
  package.sh: $CC must at least compile and executable hello world
02-10-04 package.sh: $INSTALLROOT/lib/package/tgz=>$PACKAGEROOT/lib/package/tgz
  package.mk: $(ED) => $(STDED), $(EDFLAGS) => $(STDEDFLAGS)
  iffe.sh: add identifier checks for tests that (implicitly) require them
  iffe.sh: disambiguate a few --config macros
02-10-02 iffe.sh: fix shell=bsh `hdr a/b'
02-09-30 package.sh: handle
 chmod of -* files
  package.sh: verify that $SHELL is Bourne compatible
  package.sh: tighten PACKAGE_USE logic PATH,LIBPATH,etc. validation
  iffe.sh: fix bug that didn't define mac variable on success
02-09-22 package.sh: handle admin_action=ditto
  iffe.sh: --config sizeof(foo) macro is SIZEOF_foo
  iffe.sh: fix long.long test so it doesn't defeat uwin "typ long.long"
  mamprobe.sh: convert $("foo") nmake string constants
02-09-21 mamprobe.sh: "-" info-path writes probe info to stdout
02-09-11 make.probe: move from nmake src to be part of mamprobe.sh
  mamprobe: generate from mamprobe.beg C.probe make.probe mamprobe.end
  mamake.c: pass cc absolute path to mamprobe
  package.sh: generate mamprobe -- yuk (at least its confined to INIT)
  iffe.sh: lcl,nxt: drop default sys/ check
  ditto.sh: tw --logical by default; add --physical
02-09-10 package.sh: SHELLMAGIC creeps into package too -- duh and fooey
02-09-09 ditto.sh: test that remote .profile exists before sourcing
02-09-06 package.sh:
 don't ditto nfs junk
  ditto.sh: --show now lists directory ops instead of enumerating all
02-09-05 ditto.sh: add --remote={rsh|ssh}
  package.sh: add admin [[{rsh|ssh|-}]:]directory

02-09-02 iffe.sh: change 'print -r --' to 'print -r -' for ksh86 compatibility
02-09-01 cc.unix.mc68k: add for ancient 3b1
02-08-22 package.sh: fix component() to test for components -- duh
  Makefile: add LICENSE:.DONTCARE to workaround mam
02-08-11 iffe.sh: provide defaults for LD_* additions
02-08-07 ratz.c: change -m to use * instead of non-portable inverse video
02-07-17 mamprobe.sh: close tmp file in trap before rm for cygwin
  package.sh: fix "type" to handle i1586 (P4)
  package.sh: add the view action
02-06-28 package.sh: handle multiple packages for release action
02-06-27 package.sh: catch sol*.sparc=>sol*.sun4 when CC=gcc
02-06-14 package.sh: fix admin_action to not include qualifiers
  package.sh: fix help/html doc typo
02-06-11 package.sh: fix ditto update doc to `PACKAGEROOT field
 matching *:*'
02-06-07 WWW.mk: change substitute $("\n") to \n
02-06-06 package.sh: clarify output streams for help/html
02-05-22 mamake.c: fix executable file check to use (S_IXUSR|S_IXGRP|S_IXOTH)
02-04-04 package.sh: fix update to differentiate *.sun4 and sun4
02-03-27 package.sh: yacc/bison warning only if both missing
02-03-24 mamake.c: all shell actions wrapped with -c to avoid #! problems
02-03-23 package.sh: recover $PACKAGEROOT/bin/package if not in INIT package
  package.sh: precheck $CC, not `cc'
  package.sh: fix install to use pax -ps to preserve set-uid/gid
  package.sh: fix install to use list.installed for existing files only
02-03-17 package.sh: fix PAX initialization that was sometimes omitted for read
  package.sh: fix update delta sync fetch
02-02-14 iffe.sh: fix macro{ }end docs to include "
  iffe.sh: add dfn to extract #define from headers
  iffe.sh: handle nxt #include ok but no line sync
  iffe.sh: drop local header clash logic
  iffe.sh: add -X, --exclude=dir
 to exclude -I dirs
  iffe.sh: lcl,nxt now generate <...> headers instead of "..."
  package.sh: admin.db root dir matching -* disables host
  package.mk: fix package.src.pat typo -- too many)
  package.mk: add { :COVERS: :DESCRIPTION: :REQUIRES: }
  package.sh: handle { :COVERS: :DESCRIPTION: :REQUIRES: }
  Makefile: move proto.c generation to the proto component dir
02-02-02 execrate.sh: add for .exe challenged win32 systems/commands
  mamprobe.sh: add STD* commands/flags
  mamake.c: update mamprobe info when older than mamprobe executable
  package.sh: move ed/ex workaround to mamprobe.sh
  package.sh: fix `host type' bug that incorrectly assumed sun4 for sol
  package.sh: add execrate(1) hooks for challenged systems
  package.sh: add check for { cc ar nm yacc/bison } before make
  ratz.c: fix "rb" vs. "r" macro tests
  iffe.sh: add nxt, similar to lcl but defines _nxt_foo for #include

iffe.sh,package.sh: remove vaibale from sccs,cvs ident strings -- duh
02-01-24 C+probe: check CC.DYNAMIC
to handle cc that accept but ignore -B*
iffe.sh: handle 'mem struct.a.b'
02-01-22 iffe.sh: cache (internal) `foo vs. struct foo' test results
package.sh: uts.370 => uts.390
02-01-18 package.sh: fix uts hosttype
02-01-17 package.sh: add 'results failed ...' to list failures only
package.sh: change ARCH internal var to all_types to avoid env conflict
iffe.sh: fix hdr/lib precheck that missed some -- ouch
iffe.sh: fix noexecute test that forgot to check compile first!
02-01-15 ratz.c: fix path[] type typo
02-01-01 package.mk: tighten license search
02-01-08 package.sh: `pwd` => ${PWD:-`pwd`}
package.mk: expand license file pattern match
02-01-04 iffe.sh: fix `exp name "value"' bug that duped "value"
iffe.sh: fix initial <sys/types.h> check to honor --config
01-12-25 iffe.sh: fix bug where -o file restored old file
01-12-23 package.mk: uniq the closure lists
01-12-07 ratz.c: fix --meter to retain paths containing " -- "
01-11-30 ratz.c: use sear_system() to execute;
should work on all windows
01-11-28 ratz.c: fix sear_rm_r() to check SetCurrentDirectory() status
01-11-26 ditto.sh: drop n+=v for ksh compatibility
01-11-21 ditto.sh: add rsync script replacement [hey, it works!]
package.sh: add [ditto]:directory notation to admin.db
01-10-31 package.sh: handle *.sum paths with embedded space
package.sh: change executable() to onpath()
package.sh: executable([!] foo) replaces test [!] -x foo (.exe hack)
package.sh: add os2 fix to `host type'
mamake.c: add .exe hack
iffe.sh: fix intrinsic function lib test
mamprobe.sh: update pic probe to match make.probe for linux.ia64
01-10-30 package.sh: make action skeleton view now checks subdirs
01-10-20 package.sh: don't recurse into leaf dirs matching $MAKESKIP
package.mk: tarball package.notice replaces `license accepted' prompt
package.sh: eliminate `license accepted' prompt
package.sh: add update to download latest from a url
package.sh: use builtin arithmetic when we know its ksh
iffe.sh:
unkown -> unknown
01-10-18 package.sh: convert to YYYY-MM-DD delta releases instead of NNNN
package.mk: convert to YYYY-MM-DD delta releases instead of NNNN
ratz.c: fix -m for paths containing \f\n\r\v
01-10-16 ratz.c: _SEA_* => SEAR_*
ratz.c: preserve stdin for sear_exec()
ratz.c: add recursive sear_rm_r() to sear_exec() tmp dir cleanup
01-10-10 mamprobe.sh: add mam_cc_SHELLMAGIC

package.sh: add nfs wakeup call to admin to avoid stale file handles
01-10-04 cc.darwin.ppc: -flat_namespace is not longer the default (huh)
01-10-01 package make: prepend $INSTALLROOT/bin/ok to PATH
package read: save cpy of bin/package when reading the INIT package
mamprobe.sh: allow cc path with optional arguments
01-09-24 Makefile,package.sh: add $INSTALLROOT/bin/.paths initialization
01-09-19 package.mk: add recurse to list.package.*
package.sh: bootstrap build nmake with _BLD_STATIC for _WIN32
01-09-11 ratz.c: add _SEA_SKIP & _SEA_COMMAND for self extracting archives
01-09-07 package.mk:
fix output capture to not generate files names with spaces
01-09-07 package.mk: fix delta release number search
01-08-11 package.mk: handle single gz executable packages (e.g., for ksh)
package.sh: fix package install to require nmake only if no *.sum
iffe.sh: drop ancient menu and prompt actions; check ./hdr.h clash
01-07-17 package: fix use cross compile test to generate files in /tmp
01-06-27 ratz: handle hard and soft links if possible
01-06-07 Makefile: fix :MAPLIB: for sco
01-05-31 crossexec.sh: add
iffe.sh: add -x crosstype to run crossexec
iffe.sh: exp test now handles pass{}end fail{}end yes{}end no{}end
package.sh: add package host canon external-host-type-name
package.sh: fix `use USER' lookup for shells that support ~USER
cc.*: add -dumpmachine to dump target HOSTTYPE
01-05-18 iffe.sh: drop $HOME/tmp/t.sh debug trace -- oops
01-05-01 mamake.c: scan() now handles :PACKAGE: foo:command
01-04-26 *.sh: expand [a-z][A-Z][0-9] for non-contiguous character codes

iffe.sh: fix run *.sh for shells that don't $* across . command
cc.mvs.390: recode for /bin/sh
01-04-25 package.mk: include non cc-g variants by default
package.sh: *[._]* => *?[_.]* for mvs.390 /bin/sh
01-04-24 TEST.mk: no tests for VARIANT=="DLL"
01-04-22 package.mk,package.sh: tarball text members are ascii encoded
01-04-18 package.mk: allow package name to be the same as one of its components
cc.mvs.390: handle .C .cpp .cxx
cc.mvs.390: compensate for -o that does not overwrite
01-04-01 regress: fix SAME that just skipped it -- we should regress regress!
iffe: fix bug that didn't emit _hdr_foo for internal hdr tests
iffe: fix lcl bug for cc -E that doesn't emit line syncs
ratz: add ascii=>ebcdic conversion for text archive members
mamake: fix buffer overlap bug that clobbered the probe file path
01-03-17 iffe: handle : separator as first arg
01-03-15 mamake.c,ratz.c,release.c: add <stdlib.h> and <string.h>
01-02-26 iffe.sh: fix bug that omitted runtime
#define for `mac' op
01-02-22 cc.ibm.risc: handle SF_CLOSE clash in <sfio.h>
01-02-14 cc.sgi.mips3,cc.sgi.mips4: handle -mips2 -mips3 -mips4 for cross cc

C+probe: quote "$cc" when its an argument!
mamake: execute actions with $SHELL, ignored signals back to default
package.sh: nmake check error output to /dev/null
package.sh: fix INIT a.out updates for knr cc
package.sh: package list now handles large tgz dirs
package.sh: *-ok executables moved to ok/* for *.dll systems
iffe.sh: change "exec >&-" to "exec >/dev/null" else linux mkdir fails!
mamake: handle `bind -lx [dontcare]'
01-02-12 ratz.c: fix _PACKAGE_ast includes
package.sh: $HOSTTYPE env overrides if $PACKAGEROOT/arch/$HOSTTYPE/
package.sh: $CC ^HOSTTYPE=[A-Za-z_0-9.]*$ overrides HOSTTYPE
iffe.sh: fix dat code that used previous $tmp.exe
iffe.sh: fix dat code for _DLL imports
01-02-09 iffe.sh: add copy() for shells with the dissappearing here doc bug
01-02-08 Makefile: guard against null $(CC.HOSTTYPE)
01-02-06
Makefile: separate out cc,ld,ldd workarounds (so they will be packaged)
01-02-02 package.sh: fix package use for $INSTALLROOT != */$HOSTTYPE
package.sh: create intermediate recursion makefiles when needed
package.sh: add $SECONDS to the DEBUG trace prompt
01-01-01 ratz.c: #ifdef for uwin ncc
iffe.sh,package.sh: check PACKAGE_PATH for local installations
package.sh: add psrinfo for osf.alpha host cpu
package.sh: change pax --meter probe; some hang on /dev/tty
package.sh: fix `install flat ARCH'
mamake: eliminate loops from scan order
C+probe: add probe_verbose -V for aix cc=xlc
cc.ibm.risc,ldd.ibm.risc: add
package.mk: list refs to top-level licenses only
package.mk: add local link table to change log html
00-12-25 package.sh: `no package archives' is a hard error, duh
package.sh: reorder host type logic for lame shells
mamake.c: getcwd => getwd for NeXT -- how about posix==default guys
iffe.sh: really gross workaround for NeXT -lposix stdout null's

iffe.sh: handle cc -E that insists on compiling
00-12-15 iffe.sh: ancient sh function call blows $*; call only when $# == 0
*.sh: `getopts 2>/dev/null` => `(getopts)2>/dev/null` for ancient sh
package.sh: fix LD_LIBRARY*_PATH initialization
cc.next.m68k: add for _POSIX_SOURCE and linker multiply defined syms
00-12-12 ratz: add --meter
package.sh: a few VPATH fixes
Makefile: don't override *.mips* cc if -version not accepted
00-12-11 package.mk: *.inx now contains name=value
00-12-07 package.sh: handle PC netscape . => _ pathname mangle
WWW.mk: .tar.gz => .tgz
00-11-27 package.sh: add checklicense() to do license checks at read time
package.mk: change component list from preformat to table

00-10-31 package.mk: *.pkg must assert closure
  package.mk: add cc- variants to list.package.binary
  package.sh: omit dups from package list
  package.sh: invalid arg gives one line Usage
  package.sh: relax checkaout checks for non-owners
  package.sh: package use sets NPROC if
 not already set or [01]
  proto.c: add $(INSTALLROOT)/include/ast hack
00-10-26 WWW.mk: add .SOURCE rhs to :WWWPAGE:
00-10-25 package: fix install
  package.mk: add list.install
00-10-22 regress: fix VIEW to skip empty dirs
00-10-19 package.mk: $(PACKAGEROOT)/bin/nmake => $(PACKAGEROOT)/bin/manmake
  iffe: validate #define identifiers
00-10-18 C+probe: mac os10 additions
  package: add DYLD_LIBRARY_PATH initialization
  add ldd.$(CC.HOSTTYPE)
00-10-01 iffe: handle -I* -L* options
00-09-21 mamake: add libxxx and xxx to makefile ordered prereqs
00-09-19 C+probe: add probe_longlong
00-09-11 package: drop manmake and $PACKAGEROOT/bin/nmake
00-09-08 iffe: verfiy that $cc is a C compiler
00-06-14 mamprobe: fix win32.* probe
  mamake: fix bug that used lower view path for generation
  package: don't clobber $PACKAGEROOT/bin/nmake
00-06-01 C+probe: fix stdinclude *again*
  package: fix write delta source to use default pax format
  package: add disambiguating bias for sgi.mips3 over sgi.mips4

 package.mk: fix for directory content packages lib ast-locale
00-05-01 iffe: fix invalid _LIB_ macro identifier
00-04-11 C+probe: uniq stdinclude and stdlib, fix usrinclude
00-04-01 regress: fix explicit OUTPUT bug that didn't compare with expected
00-03-17 package: all archives are .tgz for binary download
  package: $(PACKAGEROOT)/LICENSES/* in source and binary archives
  package: implement install and verify actions
  iffe: add exp, pth file dir ..., fix lib - -lfoo, fix lib - - -la -lb
  iffe: -L* must affect LD_LIBRARY* hacks for .exe tests -- yuk
  package.mk: add *.pkg :INDEX:
00-03-07 package: add admin action
00-03-06 makefile: install optional make probe override script C+make+probe.lcl
00-02-14 --- release 1.0 ---
  ratz: treat "foo/" as a dir, not a regular file
  package: clarify source and binary installation instructions
  package: fix so binary packages can install without cc
  package: "ratz" now a non-archive package (the only one) for bootstrap
  package: handle

VPATH=a:b arg
package.mk: "ratz" package adjustments
Makefile: use :PACKAGE_INIT: to support binary INIT packages
WWW.mk: add :WWWALL:
C.probe: fix .so check that let .dll slip through
iffe: fix config sh var assignment for HAVE_member_IN_struct
iffe: fix config sh var assignment for symbol_DECLARED
package: delay PATH export until dll hack exports complete
package: don't forget binary package $(INSTALLROOT)/lib(32|64)
package: add delta change log for source packages
00-02-10 mamprobe: add mam_cc_DLLBIG
package: fix spelling typos
package: add html help output
package.mk: beef up source and binary help => html
00-02-08 package: mkdir man/man[138] in the new arch to cover MAM bug
00-01-28 package,release: add -rcount to release
package: fix linux "host cpu" and "host rating"
package: copy *.lic to $PACKAGEBIN for "make" and "write binary"
package: fix 'release change log' case match
00-01-24 package: add copyright action
mamprobe: add -D_BLD_DLL to mam_cc_DLL
00-01-11
package: tsort for package write
package: early verification that $CC works
package: add non-interactive command arg for use action
proto: fix -C intermediate mkdir()
mamprobe: unixware.i386 ksh workaround
C.probe: move hosttype to C.probe (with unixware.i386 workaround)
WWW.mk: fix mm2html option quoting
WWW.mk: add .SCAN.mm
WWW.mk: don't force static=1; grab dll's instead
*.sh: fix getopts test to handle botched implementations like osf.alpha
iffe.sh: fix read -r test
99-12-25 iffe: tweak verbose messages
iffe: hand code non-optget getopts parse
iffe: fix bash quoting bug again
iffe: do test -w . after option parse
package: fix PACKAGEROOT search
99-11-19 --- release 0.2 ---
99-11-19 first working package & friends
99-10-31 change from lib0ast to INIT; add MAM and package bootstrap
hostinfo: gobbled by package
99-10-01 iffe: add --config, yes{...}end no{...}end, fix read -r workaround
99-09-27 iffe: add --all --verbose, --* set options
99-09-22
regress: -v disables long line truncation
99-09-11 WWW.mk: WWWDIR and MM2HTMLINFO are now lists searched in $(HOME)
99-08-11 hostinfo: fix type sgi.mips4

99-06-24 WWW.mk: add
99-06-08 hostinfo.sh: ${TMPDIR:-/tmp}
99-06-07 TEST.mk: add
99-06-01 iffe: add `siz type' for _siz_type == sizeof(type)
99-05-11 hostinfo,iffe,regress,use: long options
99-05-01 C.probe: fix over aggressive stdinclude, e.g., /usr/include/machine
99-04-01 hostinfo: sgi.mips? -o32 and -n32 checks
iffe: check that . is writable
99-03-17 hostinfo: fix for cc not found
dl.c,hello.c,m.c: headers in conditionals to force .DONTCARE
C.probe: extra check for include dirs pulled in by <sys/types.h>
99-03-03 regress: add `UNIT - ...' for extra args
Makefile: add (_hosttype_) prereq for cc
99-01-23 hostinfo: tweak rating, use /proc/cpuinfo if there
99-01-11 C.probe: shlib before lib, /usr before /
98-12-25 iffe: work around win32.alpha intrinsic clash with -O
98-11-11 regress: fix UNIT PATH lookup
98-11-01 regress:
add PROG
98-10-01 hostinfo: add unixware.*
use: export PACKAGE_*
98-08-11 C.probe: add /usr/include check (for sco CC)
hostinfo: handle uwin uname update
98-05-01 regress: fix bug sometimes didn't list last test
98-04-01 hostinfo: add cc path arg
hostinfo: now works with /bin/sh
Makefile: strengthed -lm probe
98-01-23 Makefile: check for -ldl -lm
C.probe: handle gcc -v -E phony include dirs
iffe: fix lcl by dropping sort -u -- we need the real first
iffe: `mem x' to test if x is a non-opaque struct
98-01-11 $(INSTALLROOT)/lib32 for sgi.mips3
$(INSTALLROOT)/lib64 for sgi.mips4
add cc.hp.pa
98-01-01 cc.sgi.mips*: turn off ld library multiply defined
97-10-11 regress: add VIEW function for locating data
97-10-01 Makefile: -ldl test moved to libdll Makefile
97-08-11 regress: add MOVE
regress: add SAME
regress: use getopts
regress: `EXEC' repeats previous test
97-07-17 use: tweak PATH and LIBPATH bootstrap order
iffe: fix lcl bug that botched pathnames with embedded
spaces
97-06-12 iffe: add npt `needs prototype' test
97-05-09 hostinfo: mvs.* => mvs.390
Makefile: cc.$(_hosttype_) workaround installed here
iffe: fix nolink{ ... }end

iffe: add [no]static{ ... }end for static link test
C.probe: _probe_PATH => _probe_export which must be eval'd
97-04-01 use: _RLD_ROOT set too
97-03-17 mm2html: changed inner loop
mm2html: handle .if|.ie|.el, .so
mm2html: handle different man styles
mm2html: differentiate mm/man in some non-obvious cases
hostinfo: r5000 is not mips4
97-02-14 hostinfo: validate type with cc
96-12-25 C.probe: uwin tweaks
iffe: use `...` instead of $(...) for alpha /bin/sh
iffe: fix `typ' divide by 0
iffe: `lcl' now drops X: prefix
iffe: +l* -> -l*
iffe: eval around ${...#%...} for bsd /bin/sh
use: add sgi.mips LD_LIBRARY<abi>_PATH variants
use: add -e to list exports
iffe: lcl leaves leading [a-zA-Z]: for dos
iffe: fix no{link|output|execute} logic
C.probe: don't automatically add /usr/include for
non-hosted compilers
C.probe: don't automatically place /usr/include last
C.probe: check gcc style -v -E for stdinclude usrinclude
96-11-28 iffe: check BASH_VERSION for IFS botch
iffe: typ long.xxx only if sizeof(long xxx) != sizeof(xxx)
hostinfo: fix sgi.mips[234] tests
hostinfo: fix ncr.i386 tests
96-10-31 iffe: work around old bsh here doc bug by running separate sh
96-10-11 iffe: *.iffe and *.iff for iffe src files
hostinfo: tighten sgi.mips cpu type check
96-10-01 C.probe: add probe_libdir to catch alpha /usr/shlib
96-09-17 iffe: fix typ bug that failed for single id types!
96-08-31 hostinfo: handle recent sgi hinv cpu changes
96-07-17 make sure sizeof(long xxx)>sizeof(xxx) for typ long.xxx
96-05-09 C.probe: drop multiple / in stdinclude
96-02-29 use: package root must have bin and lib subdir
mm2html: add
C.probe: probe_members += -whole-archive for gcc
iffe: add + fix the blasted `...'...\\...'...`
96-01-31 use: add pkg dir
hostinfo: add tandem
96-01-01 hostinfo:
windows_nt|windows[0-9][0-9] -> win32
95-11-24 hostinfo: linux-aout.* for non-elf linux
95-11-11 use: add aix LIBPATH
95-10-11 hostinfo: no args prints type
95-08-11 use: add
95-05-09 save original PATH in _probe_PATH

```
  beef up library dir probe
95-04-01 use c source suffix if it still preserves the dialect
  add hostinfo
  add lib/hostinfo/typemap user type map
  add sol.sun4 cpu count
  fix C.probe to properly handle C/C++ combined compiler drivers
  add NeXT to hostinfo
  bummer: mach has /usr/bin/hostinfo
95-03-19 fix dialect executable test
95-03-19 --- release 0.0 ---
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/lib/package/INIT.README
No license file was found, but licenses were detected in source scan.

```
/***********************************************************************
*                                                      *
*            This software is part of the ast package              *
*        Copyright (c) 1990-2012 AT&T Intellectual Property          *
*                and is licensed under the                 *
*              Eclipse Public License, Version 1.0                 *
*                by AT&T Intellectual Property                     *
*                                                      *
*              A copy of the License is available at               *
*        http://www.eclipse.org/org/documents/epl-v10.html         *
*        (with md5 checksum b35adb5213ca9657e911e9befb180842)      *
*                                                      *
*            Information and Software Systems Research
           *
*                  AT&T Research                       *
*                 Florham Park NJ                      *
*                                                      *
*              Glenn Fowler <gsf@research.att.com>                 *
*                                                      *
***********************************************************************/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/cosync.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/codata.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/proto.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coinit.c
No license file was found, but licenses were detected in source scan.

ksh :PACKAGE:

:LICENSE: *.open

:CATEGORY: shells

:INDEX: standalone AT&T ksh executable

:DESCRIPTION:
The AT&T Software Technology ksh package from AT&T Research
contains the AT&T ksh executable implemented by David Korn.
The download file is a gzipped ksh executable. If you want
to build ksh from the source then download one of the ast-ksh,
ast-base or ast-open packages.

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/lib/package/ksh.pkg
No license file was found, but licenses were detected in source scan.

```
/***********************************************************************
*                                                      *
*          This software is part of the ast package              *
*       Copyright (c) 1990-2011 AT&T Intellectual Property         *
*                and is licensed under the                  *
*            Eclipse Public License, Version 1.0                *
*               by AT&T Intellectual Property                   *
*                                                      *
*            A copy of the License is available at                 *
*       http://www.eclipse.org/org/documents/epl-v10.html          *
*       (with md5 checksum b35adb5213ca9657e911e9befb180842)       *
*                                                      *
*           Information and Software Systems Research
          *
*                    AT&T Research                         *
*                   Florham Park NJ                        *
*                                                      *
*             Glenn Fowler <gsf@research.att.com>                 *
*                                                      *
***********************************************************************/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coexport.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/colib.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coopen.c

* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coclose.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coquote.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/costash.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coexec.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/cokill.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/procrun.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/coshell.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/cowait.c
No license file was found, but licenses were detected in source scan.

```
/***********************************************************************
*                                                                      *
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*          http://www.eclipse.org/org/documents/epl-v10.html           *
*         (with md5 checksum b35adb5213ca9657e911e9befb180842)         *
*                                                                      *
*              Information and Software Systems Research               *
*                                                                      *
*                            AT&T Research                             *
*                           Florham Park NJ                            *
*                                                                      *
*                  Glenn Fowler <gsf@research.att.com>                 *
*                                                                      *
***********************************************************************/
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-crc.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sumlib.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-att.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-

7ZUpQFhL/src/lib/libsum/sum-bsd.c
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum.h
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-lmd.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-prng.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-ast4.c
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Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/sum-md5.c
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*
* @(#)mathimpl.h 8.1 (Berkeley) 6/4/93
*/

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/mathimpl.h
No license file was found, but licenses were detected in source scan.

The software is covered by this license:
package.mk: add :LICENSE: => package.license.class
04-10-18 package.mk: add :LICENSE:, :OMIT: to omit package subdirs
Makefile: add LICENSE:.DONTCARE to workaround mam

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/lib/package/INIT.html
No license file was found, but licenses were detected in source scan.

12-02-29 sum-sha2.c: bitcount[] order reversed to allow a single noalias buffer copy
09-09-28 sumlib.c: use simple (faster) method name match function
08-06-05 sum-lmd.c: align context to largest int
08-05-01 sumlib.c: add some -lmd verification checks
08-02-11 sum-lmd.c,features/sum: add wrapper for solaris -lmd
07-10-29 sum.h,sumlib.c: add SUM_LEGACY for legacy output format
07-09-21 sum-sha1.c: reinstate Steve Reid's public domain implementation
07-07-26 sumlib.c: drop GPL sum-sha1.c

05-02-14 sumlib.c: split into sum-*.c
05-02-14 sum-sha2.c: add SHA { 256 384 512 }
04-02-29 Makefile: compile with $(CC.PIC) for codexlib/sum $(CC.DLL)
03-12-16 add { crc prng } generic methods and maps[] to these methods
03-12-16 sum.h,sumlib.c: add sumdata()
03-09-29 sumlib.c: fix FNV to use ^ instead of +
03-04-28 sumlib.c: drop md5 `zeroize' for performance
sumlib.c: add FIPS 180-1 SHA-1

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libsum/RELEASE
No license file was found, but licenses were detected in source scan.

The AT&T Software Technology ast-ksh package from AT&T Research
contains ksh and support libraries. This is the minimal set of
components needed to build ksh. This package is a superset of the
following package: ksh; you won't need this if you download ast-ksh.

Source Package Installation Instructions:

(1) Do not install packages as root/super-user. Although some components may
have setuid executables, few must be owned by root. These are best
changed manually when the security implications are understood.
(2) Choose a package root directory and cd to it. This will be a local work
area for all packages.
(3) These instructions bypass the click to download package links on the
download site. If you already clicked, or if your system does not have
curl(1), hurl(1), lynx(1) or wget(1) then use the alternate instructions
for (3),(4),(5) in plan B below. Plan B installs the hurl(1)
script which works with ksh and modern bash. The top level URL is:
URL=http://www.research.att.com/sw/download
(4) If the bin/package script does not exist then run:
test -d bin || mkdir bin
url=$URL/package
(wget -O - $url||curl -L $url||hurl $url) > bin/package
chmod +x bin/package
(5) Determine the list of package names you want from the download site, then
use the package(1) command to do the actual download:
bin/package authorize "NAME" password "PASSWORD" \
setup source $URL PACKAGE ...
(Refer to the AUTHORIZATION paragraph on the main download page for
NAME/PASSWORD details.) This downloads the closure of the latest
source package(s); covered and up-to-date packages are not downloaded again unless
package force ... is specified. Package content is verified using md5sum.
If the package root will contain only one architecture then you can install in bin and
lib instead of arch/HOSTTYPE/bin and arch/HOSTTYPE/lib

by running this
instead:
bin/package authorize "NAME" password "PASSWORD" \
flat setup source $URL PACKAGE ...
To update the same packages from the same URL run:
bin/package setup source
(6) Build and install; all generated files are placed under arch/HOSTTYPE
($INSTALLROOT), where HOSTTYPE is the output of bin/package (with no
arguments.) name=value arguments are supported; CC and debug=1 (compile
with -g instead of -O) are likely candidates. The output is written to
the terminal and captured in $INSTALLROOT/lib/package/gen/make.out:
bin/package make
(7) List make results and interesting errors:
bin/package results
Run the regression tests:
bin/package test
List test results and errors:
bin/package results test
(8) The generated binaries are position independent, i.e., they do not
contain hard-coded paths. However, commands with related files, like
file(1) and nmake(1), require the path of the bin directory
to be
exported in PATH.
(9) You can run the binaries directly from the package root, or you can
install them in a public root after you are satisfied with the make and
test actions (requires the AT&T nmake(1) command):
bin/package flat install DIRECTORY PACKAGE
This will install in DIRECTORY/bin and DIRECTORY/lib. If you want to
preserve the arch/HOSTTYPE hierarchy under DIRECTORY then omit the
flat argument. If you don't have nmake(1) then the following will do a
flat install:
cd $INSTALLROOT
cp -p -r bin lib include DIRECTORY
(10) To summarize, after the first time the download, build, and test cycle
for the latest source release is:
bin/package setup source
bin/package make
bin/package test

Source Package Installation Instructions -- Plan B:

(3) Create the subdirectory lib/package/tgz and download all package archives
into that directory.
(4) If the bin/package script does not exist then manually read the
INIT
source package:
gunzip < lib/package/tgz/INIT.YYYY-MM-DD.tgz | tar xvf -
Note that some browsers automatically unzip downloaded without warning.

If the gunzip fails try:
tar xvf - lib/package/tgz/INIT.YYYY-MM-DD.tgz
If your system does not have tar(1) or gunzip(1) then download the ratz
source package, compile it, and manually read the INIT
source package:
mkdir bin
cp lib/package/tgz/ratz.YYYY-MM-DD.c lib/package/tgz/ratz.c
cc -o bin/ratz lib/package/tgz/ratz.c
bin/ratz -lm < lib/package/tgz/INIT.YYYY-MM-DD.tgz
(5) Read all unread package archive(s):
bin/package read
Both source and binary packages will be read by this step.

All recorded changes follow.

::::::::: ksh93 :::::::::

12-08-01 --- Release ksh93u+ ---
12-08-01 A bug that ignored interrupts for some builtins (e.g. cmdtst::grep)
that read from stdin has been fixed.
12-08-01 A bug that interpreted "cd .foo" as "cd foo" has been fixed.
12-07-30 Added automatic
restart for EINTR for ioctl, tcgetattr, and tcsetattr.
12-07-23 A scoping error with namrefs to compound associative arrays has
been fixed.
12-07-20 A bug where builtin -d /path/foo deleted foo has been fixed.
12-07-18 A bug in which /dev/stdout did not work in command substitution on
some systems has been fixed.
12-07-17 A bug in which the restricted option set in a subshell prevented
some variables from getting restored when the subshell completed
has been fixed.
12-07-09 A bug in which the directory is not restored after a subshell changes
the name of the directory for subshells executed in the same process
has been fixed.
12-07-09 A bug in which file descriptors created with {n}< file were not being
closed has been fixed.
12-07-09 The 12-04-04 fix for cd .. was not correct causing cd /etc;cd .. to
remain in /etc. This has been fixed.
12-07-02 A bug in which builtin name did now work for builtins found in a
library added by builtin -f lib has
been fixed.
12-07-02 A bug in the edit modes which <tab> after a directory did not refresh
the input line has been fixed.
12-07-02 A bug in which an exit status > 256 corresponding to a signal was
not returned by a function to indicate a signal exit has been fixed.
12-06-28 Fix ulimit -a to list (Kibytes) instead of (kbytes).
12-06-27 Fix unitialized data reference for <CR> as first char in --vi mode.
12-06-26 The formatting of printf "%q" for multibyte locales has changed to

output using \u[xxx] format for valid wide characters.
12-06-25 The size limit for read -N and read -n has been raised to INT_MAX.
12-06-22 A bug in which an exit trap set in a subshell might not be triggered when the last command was a simple executable has been fixed.
12-06-22 A bug which could cause the shell to hang when a coprocess exits while a command inside a command substitution is reading from it has been fixed.
12-06-21 +ksh new accepts for commands of the form
for i; <nl> do;...;done
12-06-19 Tab completion after a / when there is only one match not completes with that match rather than generating a menu of matches.
12-06-19 A bug in which patterns containing {...} where not processed correctly inside ${var/pattern/string} has been fixed.
12-06-18 Code modified to eliminate fts_notify variable.
12-06-15 Change the .paths plugin/builtin library variable name from BUILTIN_LIB to PLUGIN_LIB to prevent new plugin_version() aware -lcmd from causing older non-plugin_version() aware ksh to dump core.
12-06-14 builtin without argument no longer lists .sh.tilde as a built-in.
12-06-12 For assignments if the form x=(foo bar), foo is only check for an alias if it is float, integer, compound, or nameref.
12-06-12 +The shell supports 64 bit i-nodes even for 32 bit binaries.
12-06-11 A bug wth >; redirection systems for which vfork() was the same a fork() has been fixed.
12-06-11 A bug in path lookup that ignored buffer boundaries
has been fixed.
12-06-08 typeset -a var and typeset -A var, first unset var when var is a compound variable.
12-06-08 A bug in which running shcomp on a program containg namespace could core dump has been fixed.
12-06-06 A bug in which unset of an associative array of compound variables did not completely unset the variable has been fixed.
12-06-06 A bug in which exporting left or right justfied fields could loose the field width has been fixed.
12-06-06 A bug on Solaris11 in which >; did not work for /dev/null was fixed.
12-06-05 A race condition which occured when stopping a builtin command invoked from a subshell has been fixed.
12-06-05 A bug with appending elements to an empty indexed array has been fixed.
12-06-04 A bug in which continuing a stopped builtin could cause it to terminate has been fixed.
12-06-04 By default, builtins added at runtime will restore the current directory if they are killed or stopped.
12-06-04 A bug in handling \\ in
read has been fixed.
12-05-31 Use getrlimit64/setrlimit64 on systems that support it.
12-05-31 Fix 64 bit big-endian arithmentic bug that mishandled nan and inf.
12-05-31 Handle ECONNRESET like EPIPE.
12-05-31 Change .paths parse to use only the last BUILTIN_LIB from the top

and treat BUILTIN_LIB value as a ':' separated list of lib names.
12-05-29 Fix BUILTIN_LIB binding bug that ignored subsequent lookups.
12-05-29 shtests: --nocompile omits the compile test and --compile does only the compile test.
12-05-25 A command subsitution containing a here-document that itself contains a here-document no longer hangs.
12-05-24 When the redirection operatory >; is directed to a symlink, it now overwrites the file named by the link rather than the link.
12-05-21 +Added printf formats %(type)q where type can be html, url, pattern, ere, or csv.
12-05-18 A bug with appending elements to an indexed array has been fixed.
12-05-18 The exit status from getopts --man interactively
was 0 instead of 2
and has been fixed.
12-05-18 Another bug with SHOPT_EDPREDICT which could cause a core dump has been fixed.
12-05-17 A bug with fixed size arrays which could cause a core dump has been fixed.
12-05-17 A bug in which the here-document <<< $(<file) was not processed correctly has been fixed.
12-05-15 The default value for -L, -R, and -Z when the size was not set was incorrectly defaulting to 1 and has been fixed.
12-05-15 A bug in which a subshell of the form (name=value exec ...) could coredump when name is an environment variable and xtrace is on has been fixed.
12-05-15 Fixed a .paths bug in which only the first BUILTIN_LIB assignment worked.
12-05-14 Arithmetic expressions and subexpressions that are not floating point now treat -0 as 0, so that $((-0)) is 0 and $((-0.0)) is -0.
12-05-11 'unset .sh' now fails with readonly message instead of coredump.
12-05-11 A bug which left an associative array arr containing one element
in
the wrong state after expanding with ${arr[@]} has been fixed.
12-05-10 A bug in which typeset -f did not display options that called getopts has been fixed.
12-05-08 Fixed a number of potential bugs uncovered by valgrind.
12-05-08 A bug in which typeset -b -Z10 var did not initialize var to the empty string has been fixed.
12-05-07 A bug in which the exit value of an interactive shell could be affected by the evaluation of the PS1 prompt has been fixed.
12-05-04 A bug in which x=() was not unsetting the old value of x before creating an empty compound variable has been fixed.
12-05-01 A bug in vi edit mode in which after <ESC>^V, the terminal was not restored to insert mode after a character is entered has been fixed.
12-04-27 A bug in which old attributes were not cleared when assigning a value using typeset has been fixed.
12-04-26 +Enabled multiline editing by default. set +o multiline can disable.
12-04-25 The 12-04-17 PATH fix created a new bug

which was fixed.
12-04-25 Fixed a big memory leak problem in which unsetting compound variables
did not free all the space.
12-04-25 A bug in which test ! ! ! was treated as an error has been fixed.
12-04-24 A bug with print -v for a compound variable that contained fixed
arrays which prevented the output from being used again as input
has been fixed.
12-04-23 +kill provides the STKFLT signal on systems that support it.
12-04-23 +The -L option was added to kill. The -L option is the same as -l
except that without arguments the output format is in the form of
a select menu.
12-04-23 A bug in which the exit status for an interactive shell was always
0 has been fixed.
12-04-20 Entering blank lines interactively no longer resets the exit status.
12-04-18 A bug in file completion in which the second tab completion on a file
would list the completion rather than inserting the completion has
been fixed.
12-04-18 A bug in which "${arr[@]:i:j}" and "${@:i:j}"
generated the empty
string when i was a valid subscript and j was <=0 rather than
generating nothing has been fixed.
12-04-17 A bug in which read -d delim from a terminal did not respond to
interrupt and did not termrinate when the delimiter was entered
has been fixed.
12-04-17 A bug in which a directory in PATH containing a .paths file that
contains a line with FPATH=dir, where dir does not exist could
cause the path search to fail has been fixed.
12-04-16 A bug in which $(trap -p) did not display traps such as ERR and
DEBUG that are not associated with signals has been fixed.
12-04-11 A bug in which unsetting a variable did not unset attributes when
the variable did not have a value has been fixed.
12-04-11 A bug in which read -A for an array whose index is an enumeration
type, lost the enumeration type has been fixed.
12-04-10 Shared libraries loaded from a library named by a BUILTIN_LIB= found
in a .paths file found in a directory on PATH now add
builtins that
are associated with the directory in PATH containing the .paths file.
12-04-09 Increased I/O buffer sizes for better performance.
12-04-09 A bug in which the leading 0 was stripped from $x, when $x contained
a heximadecimal constant inside an arithmetic expression inside
a for or while loop.
12-04-06 Modified namespaces to hand variabes FPATH, PATH, and OPTIND that
are defined in name spaces appropriately. This also fixed OPTIND
and OPTARG processing for functions.
12-04-04 A bug in which cd .. fails when the current directory has been
renamed has been fixed.
12-04-02 Made some namespace changes and added a regression test.
12-03-30 A bug with namespaces in which PATH and FPATH set in a namespace was

not restored when leaving the namespace has been fixed.
12-03-29 A bug in which appending an index array onto an array without elements caused the first element to be 1 rather than 0 has been fixed.
12-03-29 A bug which could cause a core dump when copying a large index array has been fixed.
12-03-28 The shell now generates an error message when the sizes with L, Z, and R are > 32767 on 32 bit binaries instead of generating a core dump.
12-03-28 A bug in left and right justification in which the width of invalid characters was not taken as zero has been fixed.
12-03-26 A bug in which typeset -p ref, when ref is a reference to an index array element did not display the subscript has been fixed.
12-03-23 A bug in lowercase and uppercase fields when expanding ${name:=val} when name is the empty string has been fixed.
12-03-22 A namespace bug in which a type t defined in namespace foo could not be referenced outside the namespace as .foo.t has been fixed.
12-03-22 A bug in name reference scoping in which a name function called from another function is pass a name reference to a compound variable instance to be created and the compound variable is in the global scope.
12-03-22 A bug in which ${ref[@]} did not behave like ${arr[i][@]} when ref is a name reference to arr[i] has been fixed.
12-03-21 A bug in which assigning a compound variable into arr[i], where arr[i] is an array variable did not work correctly has been fixed.
12-03-21 A bug with multi-dimenstional index arrays in which ${arr[i][j]} could generate a bogus error message when i was > 9 has been fixed.
12-03-21 A bug in which typeset v=foo, typeset -p v[0] generated a core dump has been fixed.
12-03-20 A bug in vi edit mode in which the sequence bar<ESC>0i<ESC>l left the cursor on the b rather than the a has been fixed.
12-03-20 A bug which caused a core dump when defining a type with a field as ' integer -a data=([0]=0)' has been fixed.
12-03-19 Using typeset -a array when array is an associative arry not generated an error message.
12-03-19 typeset +a, typeset +A, and typeset +C not displays the variables with the attributes a, A, and C respectively instead of an error.
12-03-19
A bug in which typeset -pC, typeset -pa, and typeset -pA output all variables rather than those of type C, a, or A only has been fixed.
12-03-18 A bug in which unset foo where foo is a name reference to a compound variable defined inside a function is not unset has been fixed.
12-03-18 A bug with SHOPT_EDPREDICT which could cause a core dump when the list of matches became empty has been fixed.
12-03-15 The assignment, typeset -C foo=(a b c) now generates a syntax error since a is not an assignment command.
12-03-16 A bug in which an unset discipline from a variable defined in a subshell is not invoked in the subshell has been fixed.

12-03-08 The assignment typeset -a (x=1 y=2) now creates an index array
of two elements rathern than an array of one element which is
a compound variable.
12-03-02 +The vi and emacs edit modes now list all the entries in a directory
when entering a <tab> for completion after a /.
12-03-02 A bug in which a program that exits
with value 12 when called
from a command substitution in which standard output has been
redirected caused the shell to hang has been fixed.
12-03-01 A bug in which the shell could not parse [[']' == ~(E)[]]]]
has been fixed.

12-02-29 --- Release ksh93u+ ---
12-02-29 A bug in which ~user expanded first in a subshell prevented it
from expanding later in a program has been fixed.
12-02-29 A bug which could lead to a core dump when more that four shared
libraries were added with the builtin command has been fixed.
12-02-29 Fixed a few bugs which caused SIGCHLD to be blocked preventing
background jobs from being reaped until a foreground job was run.
12-02-27 A bug in which sh -c for a simple command caused a fork() has been
fixed.
12-02-27 A timing bug on systems such as AIX that doesn't support vfork()
that could cause the exist status to get lost has been fixed.
12-02-22 A private file descriptor that was not close-on-exec for a command
substitution
and has been fixed.
12-02-14 A bug in which ^Z did not stop a pipeline when the last component
was a shell built-in has been fixed.
12-02-14 getconf("PATH") used to initialize ed(1) path.
12-02-13 +In earlier version read from standard input would fail when called
from the KEYBD trap. Now read options -N, -n, and -t should work
when called from a KEYBD trap.
12-02-13 If FCEDIT is not set and fc is invoked without the -e option,
ed will be invoked if found instead of /bin/ed.
12-02-10 Another bug in the saving and restoring of IFS in a subshell
that caused a core dump has been fixed.
12-02-08 A bug in which .sh.fun disciplines could be cleared after a
function completes has been fixed.
12-02-08 A bug in job control in which the foregroup process group was not
set correctly after restarting a stopped pipeline has been fixed.
12-02-07 A bug in which numbers with leading zeros could be treated as
octal constants outside of ((...)) has been fixed.
12-02-06
A bug in arithmetic with compound variables containing multiple
array elements has been fixed.
12-02-02 A bug in the ulimit option table was fixed.
12-01-26 A bug in which a set command that did not change monitor could
effect the behavior of the monitor when monitor mode is on is fixed.

12-01-21 +You can now test whether the shell implements a math function using typeset -f .sh.math.name, where name is the name of the function.
12-01-21 A bug in which typeset -L and typeset -R did not handle multibyte characters correctly has been fixed.
12-01-20 A bug that could cause the shell to hang waiting for an incorrect job pid has been fixed.
12-01-19 A memory leak which occured for a nested command subtiution has been fixed.
12-01-17 A bug in which typeset -u PS1 could enable the uppercase attribute for some other variables, for exampe, HISTFILE has been fixed.
12-01-16 A bug in which .sh.match was not correct after a substring match when the replacement string
contained a substring match has been fixed.
12-01-12 +Files that are sourced from profile files are now read and executed one command at a time so that alias definitions take effect as they do for profile files.
12-01-12 A bug in which whence -p would find a function if one existed and there was no command of that name on PATH.
12-01-11 Change b_* prototype (int, char**, void*) => (int, char**, Shbltin_t*).
12-01-05 A bug in which read was not terminating for a signal that had a trap set has been fixed.
12-01-01 A timing problem with >; has been fixed.
12-01-01 A macro expansion memory leak has been fixed.
11-12-26 A bug in array assignments of the form arr=($arr[i] ...) in which arr was not unset before the assignment has been fixed.
11-12-20 A number of code changes were made based on the results of errors indicated by static code analysis.
11-12-13 In vi edit mode a lteral <TAB> can now be entered by preceding it with a backshash.
11-12-13 When tab
is entered for completion after a ' or '', the ' and ''
characters are no longer deleted.
11-12-07 A bug in which a program in the current direcotry with a . in the name could fail to execute when both PATH and FPATH end with :. has been fixed.
11-12-07 I fixed a bug in which a variable expansion in a large here-document could be expanded to a null string.
11-12-06 An optimization to read was added in the case the the read command was redirected from a file.
11-12-06 Changes were made to make the line limit for read unlimited by default.
11-12-05 A bug in which unsetting an array variable did not completely clear the variable in some cases has been fixed.
11-12-02 +The printf alternative character # when applied to the %q format will quote argument in a form suitable for a field in a .csv format file.
11-12-02 +A -S option was added to read to be able to read .csv format files.
11-11-28 A bug in which redirection of standard error in a function called from

command substitution caused standard error to be lost has ben fixed.
11-11-21 [[(-n foo)]] no longer requires a space before (.
11-11-11 The readonly attribute for a variable now applies to compound assignments to that variable.
11-11-07 Changes were made to reduce the stack size to allow deeper function recursion.
11-10-10 +Added alternate flag to printf %H for encoding of URI's.
11-10-10 A bug which could lead to a core dump when the shell was invoked with more than twenty five open files has been fixed.
11-10-06 A bug in the scoping of name references in functions called by other functions has been fixed.
11-10-05 A bug in which wait on a pid may return the exit status of an earlier background job with that pid instead has been fixed.
11-09-22 A bug in which a read timed out with TMOUT did not always restore the terminal state has been fixed.
11-09-21 An optimization that allowed the last command in a script to use the same process id as the script
has been eliminated.
11-09-21 Added letoctal option that enables the let command to recognize octal constants starting with 0.
11-09-20 A bug in which ${var.} could cause a core dump has been fixed.
11-09-20 A bug with SHOPT_EDPREDICT when neither vi or emacs was enabled for lines beginning with # when in a multibyte locale has been fixed.
11-09-20 A bug in emacs edit mode with SHOPT_EDPREDICT that would cause history searches matching comments lines to generate predictions has been fixed. Only user typed comment lines generate predictions.
11-09-20 A bug in emacs edit mode with a search that matches a comment line that could cause a core dump has been fixed.
11-09-16 A bug in which a command name ending in .. could cause the shell to abort has been fixed.
11-09-16 The characters ! + - % and @ in file names are no longer escaped with file name completion.
11-09-13 The let command no longer treats numbers starting with 0 as octal constants.
11-09-08
A bug in which printf "%R" could cause a core dump for invalid shell patterns has been fixed.
11-08-09 With set -u, ${var#pattern} reported that var was unset for special variables.
11-08-03 A bug in which the shell did not preserve the exit status for a coprocess has been fixed.
11-08-02 A bug in the saving and restoring of IFS in command substitution that caused a core dump has been fixed.
11-07-21 Modified the 10-08-27 bug fix so that background jobs started in for and while loops created interactively generate completion messages.
11-07-20 I fixed a bug in here documents in which multi-byte characters that crossed buffer boundaries were not processed correctly.
11-06-22 The shell compiler now supports process substitution.

11-06-22 +Added code to support process substitution on systems that do not supply the /dev/fd directory.

11-06-21 Fixed extraneous jobs Done messages when builtin is at the end of a pipeline.

11-06-20 Fixed two regression tests.

11-06-20

Fixed a bug introduced on last update.

11-06-14 A bug with pipefail in which the shell would wait for background jobs to complete has been fixed.

11-06-09 A bug which caused the options.sh regression test to fail on OS390 Linux has been fixed. The bug could also have affected other systems.

11-06-07 +A number of changes to support the still undocuments namespace option have been added.

11-06-06 A bug in which command substitution of eval would hang when it had standard error redirected to standard output has been fixed.

11-06-01 A bug in case statement fall through (;&) ignoring set -e was fixed.

11-06-01 A bug in which creating a left or right justified upper or lowercase variable with an empty string has been fixed.

11-06-01 A bug in which the .paths directory wasn't read when a subshell was executed before any other command has been fixed.

11-05-31 The shell now gives an error when a type variable is assigned to an array instance when the
array has been declared a compound variable
array.

11-05-31 A bug in which typeset -m of an array instance did not remove the original instance has been fixed.

11-05-28 A bug in which typeset -m dest=src fails when src and are passed as name references was fixed.

11-05-28 A bug in which typeset -m "c.board[1][i]=el", where el is a compound variable core dumps has been fixed.

11-05-28 Two bugs in the display of arrays of compound variables with print -v have been fixed.

11-05-27 A bug with command substitution with the shift jis locale has been fixed.

11-05-25 A bug in which unset -f foo, called within function foo could cause the shell to core dump has been fixed.

11-05-24 A bug in unsetting arrays of compound variables that could lead to a core dump has been fixed.

11-05-24 A scoping bug in with typeset -m for variables passed as references has been fixed.

11-05-09 A bug in which 'typeset +p array[$i]' in a subshell could cause an exception has
been fixed.

11-05-03 Two more scoping bugs with name references and read -C were fixed.

11-05-03 A potential race condition which occurs when here-documents are processed in asynchronous blocks has been eliminated.

11-05-02 Another scoping bug with name references defined in a function has been fixed.

11-05-02 A bug in which the shell discards saved exit status of a job if it is followed by a subshell execution has been fixed.
11-04-28 The shell now checks for numerical overflows with process ids.
11-04-28 Another scoping bug with compound variables defined by name references inside a function has been fixed.
11-04-28 A bug which caused a core dump on 32 bit systems with the basic.sh regression test has been fixed.
11-04-27 A scope binding error for name references has been fixed.
11-04-27 Assignment of compound variable to compound array element by name is now working.
11-04-26 I fixed a bug with SHOPT_FIXEDARRAY compilation that could cause an a core
dump for not fixed arrays.
11-04-25 A bug in the references to two dimensional compound arrays has been fixed.
11-04-20 A bug in which a name reference to a multidimentional index array index, nameref x=foo[3][4], did not work correctly has been fixed.
11-04-18 Changes were added to allow fixed size arrays of variable sized objects when the SHOPT_FIXEDARRAY compile option defined on 10-09-28.
11-04-18 A bug in which name references to array elements could fail has been fixed.
11-04-15 +A compile option, SHOPT_2DMATCH, has been added which causes .sh.match to be a two dimensional array after ${var//pat/str}
where the first dimension is the pattern number and the second is
the match instance.
11-04-11 A bug in which readonly var, where var is exported could cause var to be unset has been fixed.
11-04-06 A tokenizer bug in which ${x/{3}(\d)/ } would cause in infinite loop has been fixed.
11-04-05 A bug in which ${!x.} could cause a core dump has been fixed.
11-04-04
A bug in which cleaning out the history file could terminate before keeping all the recent history events has been fixed.
11-03-29 A bug in which ${#array[@]} was 1 rather than 0 after issuing typeset array[7] has been fixed.
11-03-29 The subscript out or range message for fixed arrays has been fixed.
11-03-29 A bug in which suspend could cause a core dump has been fixed.
11-03-24 For the showme option added 09-09-09, commands beginning with a ; inside an arithmetic for loop, no longer produce syntax errors.
11-03-18 A bug in _WINIX ~domain/user expansion has been fixed.
11-03-16 A bug in the pipefail option which could cause a script to hang has been fixed.
11-03-12 The shell no longer treats ${##pattern} as a syntax error.
11-03-11 A bug in typeset -u on systems that don't supply the towctrans() function has been fixed.
11-03-11 A bug in which a compound assignment of the form var[sub]=(...) would evaluate sub for each assignment has been fixed.
11-03-07

A bug in which reassigning a compound variable to an associative
array index could incorrectly increase the count of the number
of elements has been fixed.
11-03-04 +The tilde expansion on windows has been modified to handle user
names of the form domain/user so that ~domain/user now expands
to the home directory of that domain user.
11-03-03 A bug in which the width of the prompt was calculated incorectly
which cause the wrong line length for edit commands has been fixed.
11-03-02 A bug in which a global variables set from within a function inside
a subshell can leave side effects in parent shell has been fixed.
11-03-01 A bug in which whence -a could dump core when the first match
was due to : in PATH and the program was in the current directory.
11-02-28 A bug in emacs mode with SHOPT_EDPREDICT (added on 10-05-20) which
disabled prediction on a line starting with # when the cursor was not
at the end of line has been fixed.
11-02-28 The output
format for compound variables with set has been fixed.
11-02-25 A bug which could lead to a core dump occurred when a shell script
without #! is invoked by name from a parent shell that has name
references defined and the script creates name references of the
same name.
11-02-21 The shell now fails with a syntax error when a here-document in a
command substition is not completed before the closing), for
example, $(foobar <<!)
here_doc
!.
11-02-18 A bug in which the value of $0 in a function defined by name()
was changed to name has been fixed.
11-02-17 A bug in which the declaration typeset var[100] did not work
correctly has been fixed.
11-02-15 A bug in which [[-v sh.match]] did not work correctly has been
fixed.

11-02-08 --- Release ksh93u ---
11-02-08 A bug in which opening standard output after it has been closed with
exec 1>&- doesn't work has been fixed.
11-02-07 A bug on some systems for which a command subtitution could hang

has been fixed.
11-01-28 A bug in file name completion for files containing both multibyte
characters shell special characters has been fixed.
11-01-18 The .sh.match variable now shows elements that do not match as
as not set rather than an empty string.
11-01-18 A bug with typeset -m of an array into an element of an indexed
array has been fixed.
11-01-13 A bug in handling of arrays of compound variables inside ((...)) which
reported a syntax error been fixed.
11-01-10 A bug in arithmetic assignment operators of the form op= for array

variables when the same array was referenced on the left and the
right hand side with different indices has been fixed.
11-01-10 A bug in which the output of time was lost when { time...;} 2>&1
occurred inside command substition has been fixed.
11-01-07 [[-v sh.match[i]]] was returning false when sh.match[i] was set.
11-01-05 Added and modified warning messages with sh -n.
11-01-02 Fixed bugs with typeset -l/-u/-M and
arrays.
10-12-28 Fixed a bug with typeset -l/-u/-M values in arithmetic expressions.
10-12-26 Fixed a time parsing bug in sleep and localeconv() initialization.
10-12-23 Prevented the shell from generating a core dump when it sends itself
a termination signal because the last command terminated with that
signal. This prevents a core dump to be overwritten by the shell.
10-12-22 A bug in the expansion of ${A[@]} ${B[@]}, introduced in 10-12-01
when A="" B=B has been fixed.
10-12-21 +Use MS_3D in b_vpath() for setting win32 WoW mount defaults.
10-12-17 A bug in the expansion of ${var:i:j} which caused a core dump when
i > ${#var} has been fixed.
10-12-16 +sleep now treats . as decimal point even in locales that use comma.
10-12-16 +typeset -M mapname was added to generalize on toupper and tolowwer
mapping as provided with wctrans().
10-12-10 A bug in which typeset -l displayed namespaces as well as lower case
variables has been fixed.
10-12-06 A bug in which
a pipeline could terminate prematurely for a pipeline
whose right hand side is a builtin, and whose left hand side ends in
a simple command that has standard output redirected has been fixed.
10-12-06 A bug in hexfloat assignments when the right hand side is a string
variable starting with 0x has been fixed.
10-12-01 A bug in the expansion of ${$1+"$@"} which causes the last positional
parameter to disappear when it is empty has been fixed.
10-12-01 A number of changes were made to reduce the startup time.
10-11-29 When wait is interrupted by a signal that is caught, it now exits
with a non-zero exit status.
10-11-29 When a variable is used directly in an arithmetic expression,
leading zeros no longer cause the value to be treated as an
octal constant. This was true in previous versions for justified
variables.
10-11-29 An incorrect warning message was eliminated with the -n option for
arithmetic expressions with associative arrays.
10-11-29 Some
changes were made to slightly reduces startup time.
10-11-24 A bug in which a name reference is make to arr[0] when arr is not
an array has been fixed.
10-11-23 If a type definition is made without a compound variable assignment it
produces an error message and no longer shows up as a defined type.
10-11-22 The handling of \ inside [...] for for shell and ~(E) patterns has
been fixed.

10-11-22 A patch was made to pfsh to handle an error case.
10-11-22 +Modified types defined in namespace so that they do not clash with types in other namespaces. Types can be referenced using .namespace.typename.
10-11-22 A bug which caused functions addressed as .namespace.funct to not work has been fixed.
10-11-22 A bug in which if nr was a name reference to an unset associative array subscript, then ${!nr} did not output the subscript correctly has been fixed.
10-11-18 A bug in which shcomp -n was not processing double quotes correctly has been fixed.
10-11-18
Fixed a bug in which typeset -T foo; typeset -T could cause a core dump.
10-11-17 Fixed a bug in which the error message for set -u could come out garbelled.
10-11-17 Modified the parser so that typeset -a var=(...) no longer checks the first index for aliases and reserved words.
10-11-17 A bug in which a subshell command consisted of only a for or until command has been fixed.
10-11-16 Fixed a bug in which typeset -u would display namespace variables as well as upper case variables.
10-11-16 A bug which could cause a core dump when unsetting a type variable when there are references to type elements has been fixed.
10-11-15 A bug which could cause a core dump when unsetting a compound array variable when there are references to array subscripts has been fixed.
10-11-15 A bug in which using typeset -m to move an indexed array instance to another array could cause the array to display incorrectly has been fixed.
10-11-12 A bug in which the unset discipline function for a type is called when the type is initialized has been fixed.
10-11-12 The sequences \< and \> are now preserved after patterns containing ~(E) in ${var/pattern/string} expansions.
10-11-11 A bug in typeset -m when the variables were compound arrary instances has been fixed.
10-11-10 A bug in output of a compound variable with types containing types has been fixed.
10-11-10 Fixed ``name=value export [-p]" to list environment.
10-11-09 shtests resets SIGPIPE to SIG_DFL for all tests.
10-11-09 Fixed a bug in expansion of $"..." when used in assignments.
10-11-09 Fixed a getaddrinfo() memory leak that didn't call freeaddrinfo() after an interrupt.
10-11-08 Modified the behavior of set -u so that the shell terminates with error message when when var is unset with ${!var} and ${#var}.
10-11-02 Fix a bug in which a signal received while in a subshell could be ignored.

10-10-26 Fix a bug where terminal interrupt was ignored while in vi/emacs

edit search mode.
10-10-26 Fix $'a\0b'c to expand to 'ac'.
10-10-26 Provide user defined round() if not in <math.h>.
10-10-26 Fix bug where $((undefined_function(1))) dumped core.
10-10-22 Provide user defined iszero() if not in <math.h>.
10-10-22 Fixed a bug with BGX compile option that could cause the shell to
hang.
10-10-22 Fixed a bug with user define math function on systems for which
char is unsigned.
10-10-21 A bug in which function autoloaded in a function leaves a file open
has been fixed.
10-10-20 Modified the behavior of set -u so that the shell terminates when
when var is unset with ${var op string} when op is #, % or /.
10-10-20 Fixed a bug with the AUDIT option in which the audit file was not
not close-on-exec.
10-10-20 +Made a number of changes and fixes for the NAMESPACE compile option
which as added on 10-06-09 but some problems still remain.
10-10-15 Fixed a bug in which arithmetic functions (added on 10-03-24) did
not work when the
function definition was in the same compound
command in which the function was referenced.
10-10-13 A bug in which creating an associative array of compound variables
with no members as an element of a compound variable did not work
has been fixed.
10-10-08 A bug in which killing the last command in a function defined
with function name, terminated the calling script has been fixed.
10-10-08 A bug which could cause a core dump if IFS is unset inside a function
has been fixed.
10-10-07 +To reduce unwanted side effects, invoking typeset without the export
option and without an assignment now causes the variables to be unset
if the variable is inherited from the environment.
10-10-06 The closing brace for ${ command } is now a token no matter what
character follows it.
10-10-04 The change for $'...' expansion on 10-08-09 did not expand parameters
contained in the error message and this has been fixed.
10-10-04 A bug in which a declaration of indexed array
(-a_ in a type
definition would be displayed as a compound indexed array (-C -a)
has been fixed.
10-09-30 The C99 math function ldexp has been added.
10-09-30 A bug with two dimensional arrays with expansion of the form
${ref[0..5]} where ref is a nameref to array[i] has been fixed.
10-09-29 A bug in which an eval with redirections invoked from a dot script
would not restore the file has been fixed.
10-09-29 A bug in which loading a function from FPATH could leave a file
descriptor open has been fixed.

10-09-28 +A new compile option SHOPT_FIXEDARRAY has been added and is being evaluation. It allows fixed sized indexed arrays be to defined using "typeset array[dim1][dim2]...[dimn]". Fixed sized arrays are used the same way indexed arrays are. Currently, only fixed arrays of fixed objects (float, int, and justifies objects) are supported.

10-09-22 A bug which could cause an exception when a function with static variables was redefined has been fixed.

10-09-21

A bug in the processing of (command&) which created a job in the parent process has been fixed.

10-09-21 A for loop optimization bug with arithmetic expression evaluation has been fixed.

10-09-21 A bug in which a recursive function containing a pipeline could lead to an exception fixed after 8 levels of recursion has been fixed.

10-09-18 A bug in which the count of elements in an array was wrong leading to an exception has been fixed.

10-09-13 A bug which occurred when both xtrace and showme options where specified in which the xtrace option disabled showme has been fixed.

10-09-13 A bug in which creating a reference to an array variable with any elements could cause subsequent array elements to be treated as compound variables has been fixed.

10-09-09 A bug which caused ((c.ar[x][y])) to be treated as a syntax error has been fixed.

10-09-08 A bug in the processing of references to multidimensional arrays in arithmetic expressions has

been fixed.

10-09-08 A bug in the handling of multi-dimensional arrays which caused the number of elements in each dimension to be incorrect has been fixed.

10-09-07 The change for messages on 10-08-09 did not handle message in assignments and this has been fixed.

10-09-07 A bug in the indentation of compound variables in arrays when output with print -v has been fixed.

10-09-07 A rare bug with indexed arrays when assigned a null string that could cause a core dump has been fixed.

10-09-03 A number of changes were made for jobs pools.

10-08-31 typeset -p was modified to output name references after other variables so that the output could be used as input.

10-08-31 A bug with typeset -p in which variables with attributes but without attributes were not displayed correctly has been fixed.

10-08-27 +When running a subshell, the current pool is unset.

10-08-27 A bug in which jobs started from within for or while lists in interactive shells could generate

completion messages has been fixed.

10-08-25 Fixed a couple of bugs related to job pools.

10-08-24 +[[-e /dev/xxx/]] can be used to check whether special files of

those names are handled by the shell.
10-08-24 A bug in the running of a compiled dot script in which only the first command was executed has been fixed.
10-08-23 A bug which sometimes caused a core dump with a configure script has been fixed.
10-08-20 A bug in command substitution which caused a configure script to hang has been fixed.
10-08-19 Eliminated unnecessary ; from output of compound variable with typeset -p.
10-08-17 Fixed a bug in command substitution in which under certain circumstances a file whose size is a power of 2 plus one, and the last character was not a new-line, could cause memory corruption.
10-08-13 +Added static discipline functions to type similar to C++ static class functions.
10-08-11 A bug in time when applied to a pipeline in which the shell did not wait for
all elements of the pipeline to complete has been fixed.
10-08-11 Restored sh_fmtq() quoting to not quote NAME= in NAME=VALUE.
10-08-09 +Modified the expansion of message strings, $"...", so that they are expanded each time they are referenced rather than expanding them when the script is compiled or read in.
10-08-06 +The process id for jobs in job pools is now of the form poolname.n where n is the jobid in that pool. Commands that accept job names or numbers now understand names in this format.
10-08-05 A bug in which an assignment from within an arithmetic expression inside a function would create a local variable has been fixed.
10-08-04 A bug in the expanding of variables whose names contain multibyte characters has been fixed.
10-08-04 A bug which caused an exception when processing scripts compiled with shcomp -n has been fixed.
10-08-02 Tests using very small buffer sizes uncovered a number of bug most connected with here documents which have been
fixed.
10-07-27 The format modifier , used for digit grouping with d and f formats has been documented.
10-07-26 cd '' now produces and error rather than changing to the current directory.
10-07-26 A bug in multi-byte locales which the last character of a multi-byte character is a \ or pattern character which could occur when the character was the last character of a command substitution has been fixed.
10-07-23 Another bug in the processing of ${var:offset;len} in multi-byte locales when len is larger than the number of characters has been fixed.
10-07-23 Many coding changes have been made to eliminate most of the uses of global variables in the shell code.
10-07-22 Fixed a bug in which discipline functions were not being invoked when it was invoked as ref.discipline where ref was a name reference

to an array instance.
10-07-22 Fixed a bug in which discipline functions were not being invoked it
was invoked on a two dimensional array, i.e., arr[5][9].discipline.
10-07-19
Fixed a buffering problem which occurred when running a script with
ssh and the parent ssh process is killed.
10-07-14 Modified the parser to treat ((...)) inside [[...]] as ((...)) to
that it is a nested (...).
10-07-09 A bug in the handling of process substitution inside command
substitution as part of a pipeline has been fixed.
10-07-07 A bug in the output for compound variables containing
multi-dimensional arrays has been fixed.
10-07-06 ksh now recovers from changes made by bash to the history file without
loosing history commands.
10-06-25 A bug in which a large here document containing command substitutions
of a dynamically loaded function that contained a here document
could get truncated has been fixed.
10-06-24 If after executing a script found in FPATH, if a function, builtin,
or type name corresponding to that script is not defined, the shell
now outputs an error message and returns value 126.
10-06-23 Floating
point functions that happened to return integer values
were being treated as if the function returned integers so that
integer division could be used instead of floating point division.
10-06-22 Fixed a bug in earlier ksh93u in which an arithmetic assignment to a
variable in the global scope would instead create a local variable if
the variable had an attribute but did not have a value.
10-06-18 Modified trap handling so that if the same signal is received when
executing the handler, it is deferred until the handler completes.
10-06-16 Fixed a bug in which ulimit -v was setting the the cpu limit
on Linux.
10-06-14 +The command 'typeset -T' now generates the list of type definitions
in a format that can be used as input to the shell.
10-06-09 Put in patch from Solaris for output quoting with %q.
10-06-09 +Made changes to the NAMESPACE compile option so that it now seems
to work. With this option, namespace <name> { command;} will
run command in the namespace
.name so that all variables and
functions created by command are accessible outside the name
space via .name.var and .name.fun. Variables and functions that
are not in the namespace are not modified when running command.
10-06-07 Change most internal interfaces to take Sh_t* argument.
10-06-03 +Types can be loaded on first reference by putting definitions in
PFPATH.
10-06-03 +The shell is now able to parse commands which use type statements
before the typeset -T command to define the type executes.
10-06-03 A bug in the quoting for name reference declarations which did
not properly handle [and] in subscripts for associative arrays.

10-06-02 A bug in which a discipline function defined by a type instance to override the default was not being registered has been fixed.
10-06-02 A bug in which read -C of an associative array of compound variables was not working has been fixed.
10-06-02 A bug in which the error message for an unset parameter with set -u

did not contain the name of the variable has been fixed.
10-06-01 A bug in typeset -m for moving an indexed array instance to a variable has been fixed.
10-06-01 A bug in which caused memory to be freed twice when unset was called for an indexed array that had get or set disciplines has been fixed.
10-06-01 A bug in which the %b format of printf was not preserving NUL bytes with \0 has been fixed.
10-06-01 A bug in the handling of name references to array variables in arithmetic expressions has been fixed.
10-05-28 Fixed bugs in changing attributes for two dimensional arrays.
10-05-28 Eliminated a few unreferenced variables and a reference to uninitialized memory.
10-05-27 Rewrote the subshell code to avoid using pipes an many cases.
10-05-24 Fixed a bug which cause an exception when both -l and -s were specified with typeset -i.
10-05-21 Inputting of three dimensional indexed arrays with (((...)...)...) was not working and has been fixed.
10-05-21
A bug in which adding the attributes -Ai to a variable via a name reference could cause the value to display incorrectly has been fixed.
10-05-21 A bug in which using $var inside ((...)) did not work when var was a hex float variable.
10-05-20 +The compile option SHOPT_EDPREDICT has been added. When this option is on, as you type a line beginning with a # the following characters are treated as a shell pattern and cause matching lines from the history file to be displayed as a numbered list as you type. You can scroll up and down this list or you can use <ESC>nTAB to make this the current line (n defaults to 1 of omitted) or <ESC>n<cr> to execute.
10-05-20 A bug which caused an exception when multiple levels of composite functions in arithemtic expressions has been fixed.
10-05-19 <<< with an empty string no longer gives an error.
10-05-19 A bug in arithmetic evaluation when a name reference to an array instance was used has been fixed.
10-05-14
A bug in which the shell treats a valid index array assignment, typeset -a x=(foo (x=3;y=4) bar) as a syntax error has been fixed.
10-05-13 A bug in creating name references to associative array variable after a lookup of one of its elements has been fixed.
10-05-12 Two bugs in the handling of function static type variables in subshells have been fixed. One could cause an exception and the other would leave side effects in the parent shell.

10-05-10 A bug in which static variables in functions were not being saved and restored properly when running subshells has been fixed.
10-05-05 A bug in which print -v did not work correctly when an operand was an indexed array element referring to a compound variable has been fixed.
10-05-05 A change to improve performance by special casing empty string assignments to avoid repeated malloc() and free().
10-05-05 A bug in which creating a name reference to a non-existent associative array element would create the
array element has been fixed.
10-05-04 A bug in which name references to static variables in the static scope were not found has been fixed.
10-04-30 Do not use socketpair() on systems that implement ioctl(I_PEEK) on pipes.
10-04-29 +When the current job pool is set, coprocess are run in a job pool.
10-04-28 A type defined with a member foo that is an associative array without elements followed by an expansion ${bar.foo[a]} and an assignment bar.foo[a]=b, no longer indicates that ${#bar.foo[@]} has 0 members.
10-04-27 Another bug in which a nested command substitution could hang if it generated too much data has been fixed.
10-04-26 A type defined with a member that is an indexed array without elements would behave as if the 0th element of each instance was defined after a non-zero element was specified and this has been fixed.
10-04-26 A bug in which types defined in a subshell were not undefined when the subshell completed has been fixed.
10-04-23 For
file completion in commmand line editing, file names starting with # are now escaped so that they are not treated as comments.
10-04-23 A bug in which ${t.var:=value}, where t is an instance of a type variable, could assign value to the type variable rather than to the type instance has been fixed.
10-04-23 +Added &| which can be used in place of | to have portions of a pipeline executed in the pool.
10-04-22 +The .sh.pool variable was added for use with job pools.
10-04-22 A bug in which a nested command substitution could hang if it generated too much data has been fixed.
10-04-20 A bug which corrupted one byte of memory when read was called with reads that did not use a delimiter has been fixed.
10-04-19 The display of a compound variable with an embedded array with attributes was sometimes not working correctly and has been fixed.
10-04-16 A bug in which attributes were not be propagated to elements in an associative array has been fixed.
10-04-15 A bug
which caused scripts containing user defined math functions to fail to compile with shcomp has been fixed.
10-04-15 +Job pools have been added with the SHOPT_COSHELL compilation option. A job pool allows a collection of background jobs to run either locally or remotely and to be managed as a unit. The command '& name ...' creates or uses a named job pool for subsequent background jobs.

kill, wait, and jobs allow the pool name as operands.
10-04-14 A bug in which a coprocess connection could terminate prematurely when running a nested subshell has been fixed.
10-04-12 +Enumeration constants can be used in arithmetic expressions with the ==, != and = operators when the left hand side is an enum variable and the right hand side is an enumeration constant.
10-04-07 A bug in which setting the trap on CHLD to ignore could cause an incorrect exit status has been fixed.
10-04-06 A bug in which LINENO was not incremented for a here-document when the here-document
word was followed by a comment has been fixed.
10-04-06 The optimization that execs the last process of a script rather than creating a new process has been removed when a trap on interrupt has been set.
10-04-06 Unsetting the 'C', 'A' or 'a' typeset attribute now produces an error message rather than generating an exception.
10-04-06 A bug in which .sh.name contained the subscript and .sh.subscript was empty in some cases with discipline functions on array instances has been fixed.
10-04-05 A bug in the edit modes where preceding the interrupt character with the literal next character did not work has been fixed.
10-04-05 A bug in the creation of type instances of arrays which could cause an exception has been fixed.
10-03-30 A bug in the display of a compound variable containing an indexed array of compound variables has been fixed.
10-03-24 +Arithmetic functions can be defined using the shell function syntax, 'function .sh.math.name x y z{...}'
, where name is the function name invoked within ((...)) and x y z are long double arguments passed as name references. y and z are used for functions with two and three arguments respectively. The value of the function is the value of the long double .sh.value variable when the function returns.
10-03-24 A bug in which integer division was mistakenly used when the numerator was a binary operator with the first operand floating point and the second integer, e.g. (.1**3)/3, has been fixed.
10-03-24 The >; file operator was modified so that the temporary file is created in the same physical directory as file.
10-03-23 A warning message was added to sh -n when $var was used inside ((...)) instead of var.
10-03-19 fmin was added to the list of math function on the man page.
10-03-19 Fixed the return value for unalias when the alias did not exist.
10-03-19 A bug in which the SHLVL variable exported the value it had on input rather than the incremented
value has been fixed.
10-03-19 A bug which causes whence -q to go into an infinite loop has been fixed.
10-03-19 Removed space between Stopped message and (SIGTTIN) and (SIGTTOUT).

10-03-17 Modified profile shell execution so that when builtins that
correspond to executable have extended attributes, they are
executed by pfksh instead of being treated as built-ins.
10-03-16 A bug in whence -a which produced duplicate lines of output has
been fixed.
10-03-16 A bug in the handling of process groups in monitor mode for
command substitutions has been fixed.
10-03-15 Fixed a bug in which read -u[fd] could cause the shell to core
dump when fd was greater than open_max.
10-03-15 +Modified the shell I/O so that the shell will not fail if the
ulimit for open_max is increased as part of the script.
10-03-12 A bug in which a here-document containing command substitutions
that contained here-documents did not process correctly has been
fixed.
10-03-12 A bug in which
the terminal is not restored to canonical mode
after read times out when in a multibyte locale with no edit mode
enabled has been fixed.

10-03-05 --- Release ksh93t+ ---
10-03-05 A variable unset memory leak has been fixed and tests/leaks.sh
has been added to verify the fix.
10-03-04 Documentation, comment, and diagnostic spelling typos corrected.
10-02-14 Fix sh_getenv() initialization to cooperate with the 3d fs.
10-02-12 A bug in which the get discipline function was not invoked for
associative array subscripts for unset array elements has been fixed.
10-02-12 A bug which could occur if the last line of a script was an eval
that executed multiple commands has been fixed.
10-02-02 A buffer overflow in read and another in binary type base64
encoding were fixed.
10-01-20 A bug in the evaluation of arithmetic expression in which the
subscript was evaluated twice for $((foo[x++]++)) has been fixed.
10-01-19 A workaround for a double-free of a trap in both
a subshell and its
parent has been added.
10-01-18 A bug in type handling of typeset -H has been fixed.
10-01-15 The "adding empty subscript" warning now only emitted with -x set.
10-01-01 A bug in the parser in which '$((case i in i):;esac);:))' was not
parsed correctly was fixed.
10-01-01 A bug in the parser in which '$((2 , 3.6))' dumped core for locales
with radix char , and thousands separator . has been fixed.
09-12-28 A bug in the handling of SIGCLD on systems that generated SIGCLD
while blocked waiting for process to complete has been fixed.
09-12-24 ast setlocale() reworked to differentiate env var changes from user
override.
09-12-18 A bug with the SHOPT_BGX option set which disabled traps for signals
< SIGCHLD when a trap for a signal > SIGCHLD was set has been fixed.
09-12-18 A bug where [[-v var]] was incorrect for some variables (including

LC_* vars) has been fixed.
09-12-15 A bug that produced a syntax error when a multibyte character

straddled a buffer boundary has been fixed.
09-12-11 A bug where the subscript of an unset variable was not evaluated has been fixed.
09-12-09 A bug where shcomp dumped core on certain syntax errors has been fixed.
09-12-07 A bug where a parent shell environment var reset in a subshell removed the value in subsequent children of the parent shell has been fixed.
09-12-04 A bug in which in some cases a trap in a function executed in a subshell could trigger twice has been fixed.
09-12-03 A bug in which SHLVL exported with some attributes could cause the shell to abort at startup has been fixed.
09-12-02 A bug with pipefail in which the shell could hang waiting for the writer to complete before the last reader command has been fixed.
09-11-30 A bug in which a trap could be inherited by the first element of a pipeline when the command had more than 63 arguments that did not contain any macro expansions has been fixed.
09-11-19 When read from a terminal was
called from with a while or for loop,
and an edit mode was on, a backspace or erase no longer will overwrite the prompt.
09-11-17 +Change .paths parse to handle BUILTIN_LIB=foo BUILTIN_LIB=foo-1.2.
09-11-17 Inside a function, typeset foo.bar will bind foo to global variable foo if local variable foo does not exist, instead of creating a local variable.
09-11-17 "read -n1" from the terminal has been fixed to read exactly one character.
09-11-11 Job control now works for subshell commands, (...).
09-11-11 If set -e is on for an interactive shell errors in special builtins now cause the shell to exit.
09-11-11 A bug in which an interrupt handler processed during the read builtin when IFS did not contain a new line has been fixed.
09-11-09 A bug in which a variable that has been unset in a subshell and then exported from that subshell does not show up in the environment has been fixed.
09-11-02 ``,2" is now a valid numeric constant for locales with decimal_point=','.
09-11-02
A bug where "return" in .profile did not restore the shell state has been fixed.
09-10-31 A bug that corrupted saved exit status when pids wrapped around has been fixed.
09-10-26 A bug in { LANG LC_ALL LC_category } ordering has been fixed in -last.
09-10-16 A bug where notification to libast that the environment has changed has been fixed.
09-10-12 A bug in which a function loaded in a subshell could leave side effects in the parent shell has been fixed.
09-10-12 A bug in converting a printf %d operand to a number when the operand

contains multiple subscripts for the same variable has been fixed.
09-10-09 A bug in the handling of the escape character \ in directory prefixes in command completion has been fixed.
09-10-09 $PATH processing has been changed to delay dir stat() and .paths lookup until the directory is needed in the path search.
09-09-28 Call the ast setlocale() intercept on unset too.
09-09-24 A bug in which LANG=foo; LC_ALL=foo; unset LC_ALL; did not revert LC_CTYPE etc. to the LANG value has been fixed.
09-09-17 A bug in which unsetting SVLVL could cause a script invoked by name without #! to core dump has been fixed.
09-09-16 A bug in which a pipeline in a here-document could hang when the pipefail option was on has been fixed.
09-09-09 A bug in the processing of line joining in here documents which occurred when a buffer began with <escape><new-line> has been fixed.
09-09-09 +A leading ; with commands in a brace group or parenthesis group no longer causes an error. It now is used for the "showme" option.
09-09-09 A bug in which a subshell containing a background process could block until the background process completed has been fixed.
09-09-04 A bug in handing ${var[sub]}, where var is a nameref has been fixed.
09-09-03 A bug which caused an index array to have the wrong number of elements when it was converted from a compound variable by adding an another

element has been fixed.
09-09-03 Specifying export for a compound variable now generates an error.
09-09-02 $"..." localizations strings are no longer recognized inside `...`.
09-09-01 A bug in the for loop optimizer in the handling of type static variables has been fixed.
09-09-01 An error message is not displayed when * and @ are used as subscripts.
09-09-01 Several bugs in the processing for types that included an associative array of another type has been fixed.
09-09-01 A bug in the tracing of [[a < b]] and [[a > b]] has been fixed.
09-08-26 The .sh.file variable was not being set for a script that was run by name and didn't start with #! and this has been fixed.
09-08-25 A bug in which a function called to deeply from command substitution did not display an error message has been fixed.
09-08-24 +When processing profiles, ksh93 now violates the POSIX standard and treats &> as a redirection operator similar to bash.
09-08-23 A bug in the handling of the trap on SIGPIPE that could lead to a memory fault has been fixed.
09-08-21 A bug in the handling of the comma operator in arithmetic expressions that could cause a core dump on some systems has been fixed.
09-08-20 A bug in which a compound variable containing an array of a type that doesn't have any elements now expands correctly.
09-08-19 A bug which disabled function tracing inside a function after a call to another function has been fixed.
09-08-19 A bug in which initializing a compound variable instance to another

compound variable by name has been fixed.
09-08-18 A bug in which compound variable instances could be lost after an instance that invoked a type method discipline has been fixed.
09-08-18 A bug in which a discipline function for a type applied to an array instance when invoked in a function ignored the subscript has been fixed.
09-08-18 A scoping error with variables in arithmetic expression with type variables when reference with a name reference has been fixed.
09-08-10 Several memory leaks were fixed primarily related to subshells.
09-08-06 A bug in which setting the trap on CHLD to ignore could cause a script to hang has been fixed.
09-07-08 A bug in the processing of name reference assignments when it contained pattern expansions with quoting has been fixed.
09-06-22 +The default width for typeset -X has been changed so that there should be no loss of precision when converting to a string.
09-06-19 A bug in the printing of array elements for binary variables with printf %B has been fixed.
09-06-19 A bug which caused a core dump with trap DEBUG set with an array assignment with no elements has been fixed.
09-06-19 A bug with read with typeset -b -Z<num> has been fixed.
09-06-19 Two bugs related to read -b for array variables has been fixed.
09-06-19 A bug with typeset for compound variables containing arrays of compound variables has been fixed.
09-06-18 A bug in appending a compound variable to a an indexed array of compound variables has been fixed.
09-06-18 A bug which occurs when appending a compound variable to an indexed array element has been fixed.
09-06-18 Setting VISUAL to a value other than one ending in vi or emacs will no longer unset the edit mode.
09-06-17 A bug in typeset -m when moving a local compound variable to a global compound variable via a name reference has been fixed.
09-06-17 A bug in appending to nodes of an array of compound variables when addressing them via nameref has been fixed.
09-06-17 A bug in typeset -p var, when var is an array of compound variables in which the output only contained on array element has been fixed.
09-06-17 The prefix expansion ${!y.@} now works when y is a name reference to an element of an array.
09-06-16 Traps on signals that are ignored when the shell is invoked no longer display. Previously they were ignored as required but would be listed with trap -p.
09-06-12 A bug in vi edit mode in which hitting the up arrow key at the end of a line longer than 40 characters which caused a core dump has been fixed.
09-06-11 A bug in which "eval non-builtin &" would create two processes, one for the & and another for non-builtin has been fixed.

09-06-08 When var is an identifier and is unset, ${var} no longer tries to
run command substitution on the command var.
09-06-08 +Process substitution arguments of the form <(command) can now be
used following the < redirection operator to redirect from command.
09-05-13 A bug in which redirections of the form 2>&1 1>&5 inside command
substitution could cause the command substitution to hang has been
fixed.
09-05-12 To conform with POSIX, the -u option only checks for unset variables
and subscript elements rather than checking for all parameters.
09-05-12 A bug which could cause a core dump when a variable whose name
begins with a . was referenced as part of a name reference inside
a function
has been fixed.
09-05-01 A bug that caused a core dump when SIGWINCH was received and
both vi and emacs mode were off has been fixed.
09-04-22 +Default alias compound='typeset -C' added.
09-04-15 A bug that caused ${...;} to hang for large files has been fixed.
09-04-08 A change was made in the -n option which printed out an incorrect
warning with <>.
09-04-07 The emacs edit command M-_ and M_. and the vi command _ was fixed
to handle the case there there is no history file.
09-04-05 A bug in handling new-lines with read -n has been fixed.
09-04-05 The ENV variable defaults the the file named by $HOME/.kshrc rather
then to the string $HOME/.kshrc.
09-03-31 A bug in which a nested command substitution with redirections could
leave a file descriptor open has been fixed.
09-03-24 +ksh now only uses the value of the _ variable on startup if it can
verify that it was set by the invoking process rather than being
inherited by some other ancestor.
09-03-24 +When
ksh is invoked without -p and ruid!=euid, and the shell is
compiled without SHOPT_P_UID or ruid<SHOPT_P_UID, the shell now
enables the -p option. The previous version instead set the
euid to the ruid as it does for set +p.
09-03-24 +When SHOPT_P_UID is defined at compile time and the shell is started
without -p and ruid!=euid and ruid>=SHOPT_P_UID then euid is set
to ruid. A bug that did the wrong test (ruid<SHOPT_P_UID) was fixed.
09-03-17 +The sleep(1) builtin now accept and ISO 8601 PnYnMnDTnHnMnS
duration or date(1) compatible date/time operand.
09-03-10 If a variable that was left or right justified or zero-filled was
changed with a typeset statement that was left or right justified
or zero-filled, then the original justification no longer affects
the result.
09-03-10 A bug in the handling of traps when the last command in a script
is a subshell grouping command has been fixed.
09-03-03 A bug in which an expansion of the form ${!prefix@} could
generate
an exception after the return from a function has been fixed.

09-02-02 A bug in restricted mode in which the value of ENV could be changed from within a function has been fixed.
09-02-02 A bug in which an erroneous message indicating that a process terminated with a coredump has been fixed.
09-02-02 The exit status when exit was called without an argument from a signal handler was incorrect and has been fixed.
09-02-02 A bug in which a function autoloaded in a subshell could cause a core dump when the subshell completed has been fixed.
09-02-02 A bug in which 2>&1 inside a command substitution wasn't working correctly has been fixed.
09-02-02 A bug in the call stack of arithmetic function with 2 args returning int has been fixed.
09-01-30 A bug in which 'eval print \$0' inside a function was giving the wrong value for $0 has been fixed.
09-01-28 A bug in which a command substitution could return an exit status of 127 when the pipefail option
is enabled has been fixed.
09-01-26 ksh93 now generates an error message if you attempt to create a global name reference to a local variable.
09-01-26 +The [[-v var]] operator was modified to test for array elements.
09-01-23 +The redirection operator <>; was added. It is similar to <> except that if the command it is applied to succeeds, the file is truncated to the offset at the command completion.
09-01-23 The default file descriptor for <> was changed to 1.
09-01-20 A bug in which the exit status specified in an exit trap was not used when a process terminated with a signal has been fixed.
09-01-19 A bug in which a signal whose default action is to terminate a process could be ignored when the process is running a sub-shell has been fixed.
09-01-19 A bug in which sending SIGWINCH to a process that reads from a pipe could cause a memory fault has been fixed.
09-01-16 +The -R unary operator was added to [[...]] and test to check whether a variable is
a name reference.
09-01-16 +The -v unary operator was added to [[...]] and test to check whether a variable is set.
09-01-14 The unset built-in was modified to return 0 exit status when unsetting a variable that was unset to conform with the POSIX standard.
09-01-14 The unset built-in was modified to continue to unset variables after encountering a variable that it could not unset to conform to the POSIX standard.
09-01-14 The parameter expansion ${x+value} no longer expands the value of the variable x when determining whether x is set or not.
09-01-13 A bug in which background jobs and pipelines that were not waited for could, in rare instances, cause the shell to go into an infinite loop or fail has been fixed.
09-01-06 A bug in indexed arrays of compound variables in which referencing

non-existent sub-variable in an arithmetic expression could cause
the sub-variable to be created has been fixed.
09-01-05 A bug in which the \ character did not escape
extended regular
expression pattern characters has been fixed.
08-12-24 A bug in which killing the last element of a pipe did not cause
a write to the pipe to generate a SIGPIPE has been fixed.
08-12-19 A bug which could cause command substitution to hang when the
last element of a pipeline in a command substitution was a built-in
and the output was more that PIPE_BUFF.
08-12-18 A bug which occurs when a here documented marker embedded in a
command substitution occurs on a buffer boundary has been fixed.
08-12-17 A bug in the output of typeset -p for variables that had attributes
but did not have a value has been fixed.
08-12-16 A bug in which a name reference to a name reference variable that
references an array element has been fixed.
08-12-16 A bug in which a variable given both the -A and -C attribute along
with an initial assignment didn't work correctly has been fixed.
08-12-10 The [[-t fd]] test was fixed to handle fd>9.
08-12-10 A bug where
function stack misalignment could cause a bus error
has been fixed.
08-12-09 Command completion was changed to use \ to quote special characters
instead of quoting the argument in single quotes.
08-12-07 A bug in typeset -m which occurred when the target node was an
associative array element has been fixed.
08-12-07 A timing bug on some systems (for example darwin), that could
cause the last process of a pipeline entered interactively to fail
with an "Exec format error" has been fixed.
08-12-04 +SHOPT_BGX enables background job extensions. Noted by "J" in
the version string when enabled. (1) JOBMAX=n limits the number
of concurrent & jobs to n; the n+1 & job will block until a
running background job completes. (2) SIGCHLD traps are queued
so that each completing background job gets its own trap; $! is
set to the job pid and $? is set to the job exit status at the
beginning of the trap. (3) sleep -s added to sleep until the time
expires or until
a signal is delivered.
08-12-04 The sign of floating point zero is preserved across arithmetic
function calls.
08-12-04 A bug that caused print(1) to produce garbled stdout/stderr
output has been fixed.
08-12-04 A bug in which printf "%d\n" "'<euro>'" did not output the
numerical value of the EURO symbol, 8354, has been fixed.
08-11-24 + /dev/fd* and /dev/std* redirections are first attempted with
open() to preserve seek semantics; failing that the corresponding
file descriptors are dup()'d.
08-11-20 A bug which could cause a core dump if a function compiled with

shcomp was found has been fixed.
08-11-20 A bug in which jobs were not cleared from the jobs table for
interactive shells when the pipefail option is on has been fixed.
08-11-11 A bug in which a field that was unset in a type definition and later
set for an instance could appear twice when displaying the variable
has been fixed.
08-11-11 A bug in which running a simple command & inside
a function would
not return the correct process id has been fixed.
08-11-10 A bug in which the exit status of a command could be lost if the pid
was that of the most recent command substitution that had completed
has been fixed.
08-11-10 The maximum depth for subshells has been increased from 256 to 65536.
08-11-06 A bug which could cause a core dump when the _ reference variable was
used as an embedded type with a compound assignment has been fixed.

08-10-31 --- Release ksh93t ---
08-10-31 Variable scoping/initialization bugs that could dump core were fixed.
08-10-24 The lexer now accepts all RE characters for patterns prefixed
with a ksh ~(...) option expression.
08-10-24 +For ${var/pat/sub} \0 in sub expands to the text matched by pat.
08-10-18 A bug in array scoping that could dump core has been fixed.
08-10-10 read -n and -N fixed to count characters in multibyte locales.
08-10-10 A bug that mishandled _.array[] type references has been fixed.
08-10-09
+${.sh.version} now contains a concatenation of the following (after
'Version') denoting compile time features:
A SHOPT_AUDIT
B SHOPT_BASH
L SHOPT_ACCT
M SHOPT_MULTIBYTE
08-10-09 A bug that caused subshell command substitution with redirection
to hang has been fixed.
08-10-08 Output errors, other than to stderr, now result in a diagnostic.
08-10-08 ksh93 now supports types that contain arrays of other types as
members. Earlier versions core dumped in this case.
08-10-05 A bug which caused the shell to emit a syntax error for an arithmetic
statement of the form ((var.name[sub] = value)) has been fixed.
08-10-01 A bug that caused subshell command substitution to hang has
been fixed.
08-09-29 When the -p export option of typeset is used with other options,
only those variables matching the specified options are displayed.
08-09-29 When the shell reads the environment and finds variables that are
not valid shell assignments, it now passes these on
to subsequent
commands rather than deleting them.
08-09-29 A bug in the display of compound variables containing an indexed
array of compound variables has been fixed.

08-09-29 A bug in the display of compound variables containing an associative
array with a subscript containing a . in the name has been fixed.
08-09-26 A core dump in the subshell environment restore has been fixed.
08-09-24 $(...) has been fixed to properly set the exit status in $?.
08-09-23 $(<...) with IFS=$'\n\n' has been fixed to retain all but the last
of multiple trailing newlines.
08-09-23 The -p option to typeset when used with other attributes, restricts
the output to variables with the specified attributes.
08-09-22 A bug that sometimes lost the exit status of a job has been fixed.
08-09-21 A bug that retained trailing command substitution newlines in
cases where the command caused the shell to fork has been fixed.
08-09-19 type, whence -v, and command -v were fixed to comply with
POSIX
by writing 'not found' diagnostics to the standard error.
08-09-18 test and [...] were fixed to comply with POSIX in the case
of test '(' binop ')' where binop is a valid binary test operator.
08-09-16 +If a method discipline named create is specified when defining a
type, this function will be called when an instance is created.
08-09-15 +The variable _ is now set as a reference to the compound variable
when defining a compound variable or a type.
08-09-10 The shell now prints an error message when the type name specified
for an indexed array subscript is not an enumeration type.
08-09-10 A bug in which a subshell that spawned a background process could
loose output that was produced after the foreground completed
has been fixed.
08-09-10 A timing bug on some systems that could cause coprocesses started by a
subshell to not clean up and prevent other coprocesses has been fixed.
08-09-09 The typeset -m option is now able to rename array elements from

the same array.
08-09-09 The exit status of 2 from the DEBUG trap causes the next command
to be skipped. An exit value of 255 from a DEBUG trap called from
a function causes the function to return.
08-09-08 A bug in which a coprocess created in a subshell that did not
complete when the subshell terminated could prevent a coprocess
from being created in the parent shell has been fixed.
08-09-05 An assignment of the form name1=name2 where name1 and name2
are both compound variables causes name1 to get a copy of name2.
name1+=name2 causes name2 sub-variables to be appended to name1.
08-09-05 A bug in which unsetting a compound variable did not unset all
the sub-variables has been fixed.
08-09-01 A bug in the subshell cleanup code that could cause SIGSEGV has
been fixed.
06-08-26 +The SHLVL variable which is an environment variable used by bash
and zsh that gets incremented when the shell starts.
08-08-25 +For an indexed array, a negative subscript
now refers to offsets
from the end so that -1 refers to the last element.

08-08-24 An alignment error for shorts on 64 bit architectures has been fixed.
08-08-22 If oldvar is a compound variable, typeset -C newvar=oldvar creates
newvar as a copy of oldvar.
08-08-19 +The ALRM signal no longer cause the sleep builtin to terminate.
08-08-13 When used in an arithmetic expression, the .sh.version variable
now produces a number that will be increasing for each release.
08-08-11 A bug in which type instantiation with a compound assignment in
a dot script in which the type is defined has been fixed.
08-08-07 +The -m option has been added to typeset to move or rename a
variable. Not documented yet.
08-08-06 A bug in read when used in a loop when a prompt was specified
when reading from a terminal has been fixed.
08-08-01 A bug with the pipefail option in which a nested pipeline could
cause an asynchronous command to block has been fixed.
08-08-01 A for loop
optimizer bug that treats .sh.lineno as an invariant
has been fixed.
08-07-30 A bug in which expanding compound variable that had a get discipline
from with a here document could cause a syntax error has been fixed.
08-07-18 A bug in which a nameref caused a local variable to be created
rather than binding to an existing variable in the global scope
has been fixed.
08-07-17 A bug which occurred when a nameref was created from within a
function that was part of a pipeline has been fixed.
08-07-14 +The compile option SHOPT_STATS was added. With this option the
compound variable .sh.stats keeps usage statistics that could help
with performance tuning.
08-07-10 +The output of set now always uses a single line for each variable.
For array variables, the complete set of values is now displayed.
08-07-09 +The typeset -C option can be used with arrays to indicate that
each element should default to a compound variable.
08-07-08 +The %B format now outputs compound
variables and arrays. The
alternate flag # can be used to cause output into a single line.
08-07-03 When the window change signal, WINCH, is received, the current
edit line is redrawn in place.
08-07-01 A bug in the handling of shared variables when inside an embedded
type has been fixed.
08-06-29 A bug in multiline edit mode which occurred when the prompt length
was three characters or less has been fixed.
08-06-23 A bug in which the SIGCLD was not be triggered when background
jobs completed has been fixed.
08-06-23 _KSH_VERSION added as a name reference to .sh.version.
08-06-20 type now outputs 'special builtin' for special builtins.
08-06-19 A couple of bugs in multi-dimensional arrays have been fixed.
08-06-19 A bug in which a syntax error in a dot script could generated
a syntax error in the next subsequent command has been fixed.
08-06-17 Reduced the maximum function call depth to 2048 to avoid exceptions

on some architectures.
08-06-16 A bug in
which printf "%B" could generate an exception when the
specified variable was not set has been fixed.
08-06-16 +When typeset -p is followed by variable names, it now displays
the attributes names and values for the specific names.
08-06-14 A bug that could effect the drawing of the screen from multiline
emacs or gmacs mode when walking up the history file has been fixed.
08-06-13 A bug in which a compound variable defined in a subshell could
have side effects into the parent shell has been fixed.
08-06-13 A number of bugs related to using .sh.level to set the stack from
for DEBUG traps have been fixed.
08-06-13 +The .sh.lineno variable has been added. When .sh.level is changed
inside a DEBUG trap, the .sh.lineno contains the calling line number
for the specified stack frame.
08-06-13 The .sh.level variable has been documented and now works.
08-06-11 +The -C option has been added to read for reading compound command
definitions from a file.
08-06-11 +The . command
is now permitted inside a compound command definition.
The dot script can contain declaration commands and dot commands.
08-06-09 +Add -C option to typeset so that typeset -C foo, is equivalent
to foo=().
08-06-09 Added -n warning message for typeset option orderings that are valid
with ksh88 but not valid with ksh93, for example Lx5.
08-06-09 A bug in which the return value for an assignment command containing
a command substitution with that failed was zero when the assignment
contained redirections has been fixed.
08-06-09 A bug in the quoting of $ inside a ERE pattern ~(E)(pattern)
has been fixed.
08-06-06 A bug when processing `` command substitution with the character
sequence \$' has been fixed.
08-06-02 +When defining a type, the typeset -r attribute causes this field
to be required to be specified for each instance of the type and
does not allow a default value.
08-06-02 Several bugs in which compound variables were modified by
subshells
have been fixed.
08-05-22 +The ceil function has been added to the math functions.
08-05-21 A bug in which a name reference defined in a function and passed
as an argument to another function could cause an incorrect binding.
08-05-21 A bug in freeing compound variables that are local to functions
has been fixed.
08-05-19 +The array expansions ${array[sub1..sub2]} and ${!array[sub1..sub2]}
to expand to the value (or subscripts) for array between sub1 and
sub2 inclusive. For associative arrays, the range is based on
location in the POSIX locale. The .. must be explicit and cannot
result from an expansion.

08-05-15 The trap on SIGCLD is no longer triggered by the completion of the foreground job as with ksh88.

08-05-14 A bug in the implementation of the editing feature added on 07-09-19 in emacs mode has been fixed.

08-05-12 A bug in processing the test built-in with parenthesis has been fixed.

08-05-12 The unset built-in now returns non-zero when deleting an array subscript that is not set.

08-05-08 +Changing the value of HISTFILE or HISTSIZE will cause the old history file to be close and reopened with the new name or size.

08-05-08 When FPATH is changed functions that were found via a path search will be searched for again.

08-05-08 A parser bug in which reserved words and labels were recognized inside compound indexed array assignment after a new-line has been fixed.

08-05-07 A bug in getopts when handling numerical option arguments has been fixed.

08-05-07 +The typeset -S option was added for variables outside type definitions to provide a storage class similar to C static inside a function defined with function name. When outside type definitions and outside a function, the -S option cause the specified variable so be unset before the assignment and before the remaining attributes are supplied.

08-05-07 A bug that affected the cursor movement in multiline mode when a character was deleted from near the beginning of the any line other than the first.

08-05-01 In multiline edit mode, the refresh operation will now clear the remaining portion of the last line.

08-05-01 A bug in computing prompt widths for the edit modes for prompts with multibyte characters has been fixed.

08-05-01 A bug in the multiline edit mode which could cause the current line to be displayed incorrectly when moving backwards from third or higher line to the previous line has been fixed.

08-05-01 A bug in which options set in functions declared with the function name syntax were carried across into functions invoked by these functions has been fixed.

08-04-30 A bug which could cause a coprocess to hang when the read end is a builtin command has been fixed.

08-04-30 +The emacs and vi editors have been modified to handle window change commands as soon as they happen rather than waiting for the next command.

08-04-28 A bug in which ${!x} did not expand to x when x was unset has been fixed.

08-04-27 A bug in which the assignment x=(typeset -a foo=([0]=abc)) created x.foo as an associative array has been fixed.

08-04-25 A bug in which $# did not report correctly when there were more
than 32K positional parameters has been fixed.
08-04-04 Choose the name _ as the sub-variable that holds type or instance
specific data used by discipline functions.
08-03-27 A bug in which the terminal group was not given back to the parent
shell when the last part of a pipeline was handled by the parent shell
and the other parts of the pipeline complete has been fixed.
The symptom was that the pipeline became uninterruptable.
08-03-25 A bug in restricted mode introduced in ksh93s that caused scripts
that did not use #! to executed in restricted mode has been fixed.
08-03-25 A bug in which the pipefail option did not work for a pipeline
within a pipeline has been fixed.
08-03-24 A bug in which OPTIND was not set correctly in subshells
has
been fixed.
08-03-24 A bug which could cause a memory exception when a compound variable
containing an indexed array with only element 0 defined was expanded.
08-03-20 A bug in which ${!var[sub].*} was treated as an error has been fixed.
08-03-20 Associative array assignments of the form ([name]=value ...)
now allow ; as well as space tab and new line to separate elements.
08-03-18 A buffering problem in which standard error was sometimes
not flushed before sleep has been fixed.
08-03-17 A bug in which a signal sent to $$ while in a subshell would be
sent to the subshell rather than the parent has been fixed.
08-03-17 + A --default option added to set(1) to handle set +o POSIX semantics.
set --state added as a long name alias for set +o.
08-03-14 A bug in which using monitor mode from within a script could
cause the terminal group to change has been fixed.
08-03-10 The new ${...} command substitution will treat the trailing }
as a reserved word even
if it is not at the beginning of a command,
for example, ${ date }.
08-03-10 If the name of the ENV begins with /./ or ././ then the
/etc/ksh.kshrc file will not be executed on systems that support
this interactive initialization file.
08-03-07 A bug in which ksh -i did not run the ENV file has been fixed.
08-03-07 A bug in which ulimit did not always produce the same output as
ulimit -fS has been fixed.
08-03-04 A bug in multiline mode in emacs and vi mode which could cause the
cursor to be on the wrong line when interrupt was hit has been fixed.
08-03-03 The change made in ksh93s+ on 07-06-18 in which braces became
optional for ${a[i]} inside [[...]] was restored in the case
where the argument can be a pattern.
08-03-03 A bug in which creating a name reference to an associative array
instance would fail when the subscript contained characters [or
] has been fixed.
08-02-29 +The redirection operator >; has been added which for non-special
files,

generates the output in a temporary file and writes the
specified file only of the command has completed successfully.
08-02-15 A bug in ${var/pattern/string} for patterns of the form ?(*) and +(*)
has bee fixed.
08-02-07 A bug in which test \(! -e \) produced an error has been fixed.
08-02-14 +The typeset -a option can now optionally be followed by the name
of an enumeration type which allows subscripts to be enumerations.
08-02-14 +The enum builtin which creates enumeration types has been added.
08-02-12 The backoff logic when there are no more processes has been fixed.
08-02-07 The -X option has been added to typeset. The -X option creates
a double precision number that gets displayed using the C99 %a
format. It can be used along with -l for long double.
08-01-31 The -T option to typeset has been added for creating typed
variables. Also the -h and -S options have been added to
typeset that are only applicable when defining a type.
08-01-31 The prefix
expansion operator @ has been added. ${@name}
expands to the type of name or yields the attributes.
07-11-15 A bug in the macro expander for multibyte characters in which
part of the character contains a file pattern byte has been fixed.
07-10-03 A bug in which : was not allowed as part of an alias name has been
fixed.
07-09-26 A bug in which appending a compound variable to a compound variable
or to an index array didn't work has been fixed.
07-09-19 In both emacs and vi edit mode, the escape sequence \E[A (usually
cursor up, when the cursor is at the end of the line will fetch
the most recent line starting with the current line.
07-09-18 The value of ${!var} was correct when var was a reference to an
array instance.
07-09-18 The value of ${!var[sub]} was not expanding to var[sub] and this
was fixed. It also fixed ${name} where name is a name reference
to var[sub].
07-09-18 +It is now legal to create a name reference without an initialization.
It
will be bound to a variable on the first assignment.
07-08-30 +A discipline function can be invoked as ${x.foo} and is equivalent
to ${ x.foo;} and can be invoked as x.foo inside ((...)).
07-07-09 A bug in which typeset -a did not list indexed arrays has been
fixed.
07-07-03 +The command substitution ${ command;} has been added. It behaves
like $(command) except that command is executed in the current
shell environment. The ${ must be followed by a blank or an
operator.

08-04-17 --- Release ksh93s+ ---
08-04-17 A bug in which umask was not being restored correctly after a
subshell has been fixed.
08-04-15 A bug in which sending a STOP signal to a job control shell started

from within a shell function caused cause the invoking shell to terminate has been fixed.

08-04-11 A bug which caused $(exec > /dev/null) to go into an infinite loop has been fixed.

08-03-27 A bug in which typeset -LZ was being treated as -RZ has been fixed.

08-03-06 A bug with ksh -P on systems that support the the profile shell, in which it would exit after running a non-builtin has been fixed.

08-01-31 A bug in which command substitution inside ((...)) could cause syntax errors or lead to core dumps has been fixed.

08-01-17 A bug in which discipline functions could be deleted when invoked from a subshell has been fixed.

08-01-17 A bug in which a command substitution consisting only of assignments was treated as a noop has been fixed.

08-01-17 A bug in which discipline functions invoked from withing a compound assignment could fail has been fixed.

08-01-16 Incomplete arithmetic assignments, for example ((x +=)), now generate an error message.

08-01-16 A bug in which a set discipline defined for a variable before an array assignment could cause a core dump has been fixed.

08-01-03 A bug in on some systems in which exit status 0 is incorrectly returned by a process that catches the SIGCONT signal is stopped and then continued.

07-12-13 A race condition in which a program that has been stopped and then continued could loose the exit status has been fixed.

07-12-12 Code to check for file system out of space write errors for all writes has been added.

07-12-11 A bug in the macro expander for multibyte characters in which part of the character contains a file pattern byte has been fixed.

07-12-06 A bug in the emacs edit mode when multiline was set that output a backspace before the newline to the screen has been fixed.

07-12-04 A bug in which using <n>TAB after a variable name listing expansion in the edit modes would cause the $ to disappear has been fixed.

07-11-28 A bug in which setting IFS to readonly could cause a subsequent command substitution to fail has been fixed.

07-11-27 A work around for a gcc 4.* C99 "feature" that could cause a job control shell to go into an infinite loop by adding the volatile attribute to some auto vars in functions that call setjmp().

07-11-27 A bug in which the shell could read ahead on a pipe causing the standard input to be incorrectly positioned has been fixed.

07-11-27 A bug in which compound variable UTF-8 multibyte values were not expanded or traced properly has been fixed.

07-11-21 A bug where an unbalanced '[' in a command argument was not treated properly has been fixed.

07-11-15 A bug in which compatibility mode (no long option names) getopts(1) incorrectly set the value of OPTARG for flag options has been fixed.

07-11-15 A bug in which "hash -- name" treated "--" as an invalid name operand has been fixed.
07-11-15 typeset now handles "-t -- [-r] [--]" for s5r4 hash(1) compatibility.
07-11-15 A bug in which the umask builtin mis-handled symbolic mode operands has been fixed.
07-11-15 Bugs in which shell arithmetic and the printf builtin mis-handled the signs of { -NaN -Inf -0.0 } have been fixed.
07-11-15 +The full { SIGRTMIN SIGRTMIN+1 ... SIGRTMAX-1 SIGRTMAX } range

of signals, determined at runtime, are now supported.
07-11-15 A bug in which creating an index array with only subscript 0 created only a simple variable has been fixed.
07-11-14 A bug in which appending to an indexed array using the form name+=([sub]=value) could cause the array to become an associative array has been fixed.
07-11-14 A bug in which typeset without arguments could coredump if a variable is declared as in indexed array and has no elements has been fixed.
07-11-14 A bug in which creating a local SECONDS variable with typeset in a function could corrupt memory has been fixed.
07-11-14 A bug which could cause a core dump when a script invoked by name from a function used compound variables has been fixed.
07-11-05 A bug in which printf %d "'AB" did not diagnose unconverted characters has been fixed.
07-11-05 printf %g "'A" support added for all floating point formats.
07-11-01 A bug in which typeset -f fun did not display the function definition
when invoked in a subshell has been fixed.
07-10-29 The sleep builtin was fixed so that all floating point constants are valid operands.
07-10-10 A bug in which the locale was not being restored after LANG=value command has been fixed.
07-09-20 A bug in which a nameref to a compound variable that was local to the calling function would not expand correctly when displaying is value has been fixed.
07-09-19 A bug which cause cause a core dump if .sh.edchar returned 80 characters or more from a keyboard trap has been fixed.
07-09-14 A bug in which could cause a core dump when more than 8 file descriptors were in use has been fixed.
07-09-10 A bug in which creating a name reference to an instance of an array when the array name is itself a reference has been fixed.
07-09-10 The file completion code has been modified so that after an = in any word, each : will be considered a path delimiter.
07-09-06 A bug in which subprocess cleanup could corrupt the malloc() heap
has been fixed.
07-08-26 A bug in which a name reference to an associative array instance could cause the subscript to be evaluated as an arithmetic expression

has been fixed.
07-08-22 A bug in which the value of an array instance was of a compound
variable was not expanded correctly has been fixed.
07-08-14 A bug which could cause a core dump when a compound assignment was
made to a compound variable element with a typeset -a attribute
has been fixed.
07-08-08 A bug in which a trap ignored in a subshell caused it to be
ignored by the parent has been fixed.
07-08-07 A bug in which the set command would generated erroneous output
for a variable with the -RZ attribute if the variable name had been
passed to a function has been fixed.
07-08-02 A bug in which read x[1] could core dump has been fixed.
07-08-02 A second bug in which after read x[sub] into an associative array
of an element that hasn't been assigned
could lead to a core dump
has been fixed.
07-07-31 A bug in which a pipeline that completed correctly could have
an exit status of 127 when pipefail was enabled has been fixed.
07-07-09 +The SHOPT_AUDIT compile option has been added for keyboard logging.
07-06-25 In vi insert mode, ksh no longer emits a backspace character
before the carriage return when the newline is entered.
07-06-25 A bug in which pipefail would cause a command to return 0
when the pipeline was the last command and the failure happened
on a component other than the last has been fixed.
07-06-25 A bug in the expansion of ${var/pattern/rep} when pattern or rep
contained a left parenthesis in single quotes has been fixed.
07-06-18 The braces for a subscripted variable with ${var[sub]} are now
optional when inside [[...]], ((...)) or as a subscript.
07-05-28 A bug in brace expansion in which single and double quotes did
not treat the comma as a literal character has been fixed.
07-05-24
The -p option of whence now disables -v.
07-05-23 Several bug fixes in compound variables and arrays of arrays
have been made.
07-05-15 A bug in which the %B format of printf was affected by the
locale has been fixed.
07-05-14 A bug in which \ was not removed in the replacement pattern with
${var/pattern/rep} when it was not followed by \ or a digit has
been fixed.
07-05-10 A bug in which ksh -R file core dumped if no script was specified
has been fixed. it not displays an error message.
07-05-07 Added additional Solaris signals to signal table.
07-04-30 A bug in which a pipeline with command substitution inside a
function could cause a pipeline that invokes this function to
hang when the pipefail option is on has been fixed.
07-04-30 +Added -q to whence.
07-04-18 A small memory leak with each redirection of a non-builtin has
been fixed.

07-03-08 A bug in which set +o output command line options has been fixed.
07-03-08 A bug in which an error
in read (for example, an invalid variable
name), could leave the terminal in raw mode has been fixed.
07-03-06 A bug in which read could core dump when specified with an array
variable with a subscript that is an arithmetic expression has
been fixed.
07-03-06 Several serious bugs with the restricted shell were reported and
fixed.
07-03-02 If a job is stopped, and subsequently restarted with a CONT
signal and exits normally, ksh93 was incorrectly exiting with
the exit status of the stop signal number.
07-02-26 +M-^L added to emacs mode to clear the screen.
07-02-26 A bug in which setting a variable readonly in a subshell would
cause an unset error when the subshell completed has been fixed.
07-02-19 +The format with printf uses the new = flag to center the output.
07-02-19 A bug in which ksh93 did not allow multibyte characters in
identifier names has been fixed.
07-02-19 A bug introduced in ksh93 that causes global compound variable
definitions inside
functions to exit with "no parent" has been fixed.
07-02-19 A bug in which using compound commands in process redirection
arguments would give syntax errors <(...) and >(...) has been fixed.
07-01-29 A bug which caused the shell to core dump which can occur when a
built-in exits without closing files that it opens has been fixed.
07-01-26 A bug in which ~(E) in patterns containing \ that are not inside ()
has been fixed.

06-12-29 --- Release ksh93s ---
06-12-29 A bug in which the value of IFS could be changed after a command
substitution has been fixed.
06-12-22 +/dev/(tcp|udp|sctp)/HOST/SEVRICE now handles IPv6 addresses on
systems that provide getaddrinfo(3).
06-12-19 +A -v option was added to read. With this option the value of
the first variable name argument will become the default value
when read from a terminal device.
06-11-20 A bug in which "${foo[@]:1}" expands a null argument (instead of
no argument), when foo[0] is not empty has been fixed.

06-11-16 The discipline functions have been modified to allow each subscript
to act independently. Currently the discipline function will not
be called when called from a discipline function of the same variable.
06-11-14 A bug which could cause a core dump if a file descriptor for
an internal file was closed from with a subshell has been fixed.
06-10-30 +The redirections <# pattern, and <## pattern have been added.
Both seek forward to the beginning of the next line that contains
the pattern. The <## form copies the skipped portion to standard
output.

06-10-26 +On systems that support stream control transport, the virtual file
name /dev/sctp/host/port can now be used to establish connections.
06-10-26 +The printf modifier # when used with d produces units in thousands
with a single letter suffix added. The modifier # when used with
the i specification provides units of 1024 with a two letter suffix.
06-10-24 The value of $! is now set to the process
id of a job put
into the background with the bg command as required by POSIX.
06-10-23 A bug in which the value of $! was affected by a background
job started from a subshell has been fixed.
06-10-23 A bug in ${var:offset:len} in multibyte locales has been fixed.
06-10-15 +The remaining math functions from C99 were added for any system
that supports them.
06-10-13 The klockwork.com software detected a few coding errors that
have been fixed.
06-10-12 A bug when skipping over `...` with ${x:=`...`} when x is set
has been fixed.
06-10-11 A bug in process floating constants produced by the %a format
of printf has been fixed.
06-10-06 A bug in which IFS was not being restored correctly in some
cases after a subshell has been fixed.
06-10-06 A bug in which pipefail was not detecting some failures in
pipelines with 3 or more states has been fixed.
06-10-03 A bug in the processing of >(...) with builtins which could
cause the builtin to hang has been fixed.
06-10-03
A bug in the for loop optimizer which causes >(...) process
substitution to be ignored has been fixed.
06-09-17 +The -a option was added to typeset for indexed arrays. This
is only needed when using the ([subscript]=value ...) form.
06-09-06 +The showme option was added. Each simple command not beginning
with a redirection and not occurring with in the while, until, if,
select condition can be preceded by a semi-colon which will
be ignored when showme is off. When showme is on, any command
preceded by a colon will be traced but not executed.
06-08-16 +As a new feature, a leading ~(N) on a pattern has no effect
except when used for file expansion. In this case if not
matches are found, the pattern is replaced by nothing rather
than itself.
06-08-11 A bug in the expansion of ${.sh.match[i]:${#.shmatch[i]}} has
been fixed.
06-08-10 +The read builtin options -n and -N have been modified to treat
the size as characters rather than bytes
unless storing into a
binary (typeset -B) variable.
06-07-27 +When the here document operator << is followed directly by a #
rather than a -, the first line of the here-document determines
how much whitespace is removed for each line.

06-07-26 A bug in the C-shell history (enabled with set -H) in which the history event !$ was not processed has been fixed.
06-07-21 A bug on some systems in which assigning PATH on a command line would not take effect has been fixed.
06-07-20 Add ksh93 and rksh93 as allowable names for ksh binaries.
06-07-20 Removed the SHOPT_OO compilation option which was only partially implemented.
06-07-20 The ability to use egrep, grep, and fgrep expressions within shell patterns has been documented.
06-07-17 A bug with arithmetic command expressions for locales in which the comma is a thousands separator has been fixed.
06-07-13 +The default HISTSIZE was increased from 128 to 512.
06-07-13 A multibyte problem with locales that use shift codes has been fixed.
06-06-23 A number of bug fixes for command, file, and variable completion have been mode.
06-06-20 +Floating point division by zero now yields the constant Inf or -Inf and floating functions with invalid arguments yield NaN.
06-06-20 +The floating point constants Inf and NaN can be used in arithmetic expressions.
06-06-20 +The functions isinf(), isnan(), tanhl() have been added for arithmetic expressions.
06-06-13 Internal change to use ordering for variables instead of hashing to speed up prefix matching.
06-06-13 A window between fork/exec in which a signal could get lost and cause a program to hang has been eliminated
06-06-13 A bug in edit completion with quoted strings has been fixed.
06-06-07 The restricted options can now be enabled by set as well as on the command line. Once set, it can not be disabled.
06-06-04 Modified built-in binding so that for systems for which /bin and /usr/bin are the same, a builtin bound to /bin will get selected when either /bin or /usr/bin is scanned.
06-06-04 +Added literal-next character processing for emacs/gmacs mode. This change is not compatible with earlier versions of ksh93 and ksh88 when the stty lnext is control-v. The sequence escape-control-v will display the shell version.
06-05-31 +Modified emacs and vi mode so that entering a TAB after a partial TAB completion, generates a listing of possible completions. After the second TAB, a number followed by a TAB will perform the completion with the corresponding item.
06-05-19 +Modified arithmetic so that conversions to strings default to the maximum number of precision digits.
06-05-16 Bug fixes for multibyte locales.
06-05-10 The =~ operator was added to [[...]] and [[string ~= ERE]] is equivalent to [[string == ~(E)ERE]].
06-04-25 A bug in the vi edit mode which could cause the shell to core dump when switching from emacs mode.

06-04-17 A bug in which using
LANG or LC_ in assignment lists with builtins
did not restore the localed correctly has been fixed.
06-04-04 A bug in which discipline functions could not be added to variables
whose names started with .sh has been fixed.
06-03-28 +The -s option to typeset was added to modify -i to indicate short
integers.
06-03-28 A bug in which variables assignment lists before functions
defined with function name were not passed on the functions
invoked by this function has been fixed.
06-03-28 A bug in which name references defined within a function defined
with function name could not be used with compound variables has
been fixed.
06-03-27 A bug in which read <&p (print >&p) would cause the coprocess input
(output) pipe to close before reading from (after writing to)
it has been fixed.
06-02-28 A bug in which stopping a job created with the hist builtin command
would create a job that could not be restarted has been fixed.

06-01-24 --- Release ksh93r

06-01-24 A bug in which running commands with standard output closed would
not work as expected has been fixed.
06-01-23 A bug in which print -u<n> could fail when file descriptor <n> was
open for writing has been fixed.
06-01-19 The ?: arithmetic operator fixed to work when the operation after
the colon was an assignment.
05-12-24 A bug which could lead to a core dump when elements of a compound
variable were array elements, i.e. foo=(bar=(1 2)), has been fixed.
05-12-13 An arithmetic bug in which x+=y+=z was not working has been fixed.
05-12-13 An arithmetic bug in which x||y was returning x when x was non-zero
rather than 1 has been fixed.
05-12-07 +The aliases for integer and float have been changed to use attributes
-li and -lE to handle long long and long double types.
05-12-07 +The histexpand (-H) option has been added which allows C-shell
style history expansions using the history character !.
05-12-07 +The multiline option was added which
changes that way the edit
modes handle lines longer than the window width. Instead of
horizontal scrolling, multiple lines on the screen are used.
05-12-05 The whence builtin now returns an absolute pathname when the
command is found in the current directory.
05-11-29 A bug which caused ksh -c '[[! ((' to core dump rather than
report a syntax error has been fixed.
05-11-29 A bug when reading fixed length records into typeset -b variables
which caused a zero byte to terminate the value has been fixed.
05-11-22 +The ability to seek to an offset within a file has been added
with the new I/O redirection operators, <# and >#. Currently,

these redirection operators must be followed by ((expr))
but in a future release, it should be able to used to seek forward
to the specified shell pattern. In addition $(n<#) expands to the
current byte offset for file descriptor n.
05-11-22 +The .sh.match array variable is now set after each [[...]]
pattern
match. Previously it was only set for substring matches.
05-10-17 A bug in which the library path variable could be prefixed
with a directory when a .path file was not encountered in
the directory of the executable has been fixed.
05-09-15 A for/while loop optimizer bug in which $OPTIND was not
correctly expanded has been fixed.
05-09-05 A bug in which a history command that invoked a history
command could go into an infinite loop has been fixed.
05-08-31 +In the case that IFS contains to adjacent new-lines so that
new-line is not treated as a space delimiter, only a single
new-line is deleted at the end of a command substitution.
05-08-19 +When a tilde substitution expands to the / directory and is
followed by a /, it is replaced by the empty string.
05-08-16 A bug in which n<&m did not synchronize m has been fixed.
05-08-16 A bug in which process substitution (<() and >()) was not
working within for and while loops has been fixed.
05-07-24 A
bug in which the pattern ~(E)(foo|bar) was treated as a syntax
error has been fixed.
05-07-24 A bug in completion with <n>=, where n was the one of the
previous selection choices has been fixed.
05-07-21 A bug with multibyte input when no edit mode was specified which
caused the input line to shift left/right has been fixed.
05-06-24 A race condition which could cause the exit status to get lost
on some fast systems has been fixed.
05-06-21 A bug in which nested patterns of the form {m,n}(pat) would cause
syntax errors has been fixed.
05-06-21 A bug in the macro expander has been fixed which could cause a
syntax error for an expansion of the form ${x-$(...)} when
x is set and the command substitution contained certain strings.
05-06-08 +On systems for which echo does not do System V style \ expansions,
the -e option was added to enable these expansion.
05-06-08 A bug in which ${var op pattern} to not work when inside an
arithmetic expression has
been fixed.
05-05-23 +An extension to shell patterns that allows matching of nested
groups while skipping over quoted strings has been added.
05-05-18 A bug in which the line number for errors was not correct for
functions loaded from FPATH has been fixed.
05-04-18 A bug in which the exit status $? is not set when a trap triggered
by the [[...]] command is executed has been fixed.
05-04-08 +Redirection operators can be directly preceded with {varname}

with no intervening space, where varname is a variable name which
allows the shell to select a file descriptor > 10 and store it
into varname.
05-04-08 +SHOPT_CMDLIB_BLTIN=1 now includes <cmdlist.h> generated table.
05-04-07 +[[-o ?option]] is true if "option" is a supported option.
05-04-05 A bug in handling file completion with spaces in the names
has been fixed.
05-03-25 +The SIGWINCH signal is caught by default to keeps the LINES and
COLUMNS variables in sync with the actual window size.
05-03-25
+Building ksh with SHOPT_REMOTE=1 causes ksh to set --rc if stdin is
a socket (presumably part of a remote shell invocation.)
05-03-25 +Building ksh with SHOPT_SYSRC=1 causes interactive ksh to source
/etc/ksh.kshrc (if it exists) before sourcing the $ENV file.
05-03-25 +{first..last[..incr][%fmt]} sequences added to brace expansions
when braceexpand is enabled.
05-03-03 A bug where a SIGCHLD interrupt could cause a fifo open to fail has
been fixed.
05-02-25 A bug in which a builtin command run in the background could
keep a file descriptor open which could cause a foreground
process to hang has been fixed.
05-02-24 A bug where builtin library commands (e.g., date and TZ) failed to
detect environment variable changes has been fixed.
05-02-22 +The read builtin and word splitting are now consistent with respect
to IFS -- both treat IFS as field delimiters.
05-02-22 +The read builtin no longer strips off trailing delimiters that
are not space characters
when there are fewer variables than fields.
05-02-17 A builtin bug on systems where dlsym(libcmd) returns link-time
bindings has been fixed.
05-02-12 A bug in which the lib_init() function for .paths BUILTIN_LIB
libraries was not called has been fixed.
05-02-06 A bug on some systems in which moving the write end of a co-process
to a numbered file descriptor could cause it to close has been fixed.
05-02-06 A bug in the vi-edit mode in which the character under the cursor
was not deleted in some cases with the d% directive has been fixed.
05-02-06 A bug where external builtin stdout/stderr redirection corrupted
stdout has been fixed.
05-02-04 A bug where times formatting assumed CLK_TCK==60 has been fixed.

05-01-11 --- Release ksh93q ---
05-01-11 A bug in the integral divide by zero check has been fixed.
05-01-11 +The -l option has been added to read /etc/profile and
$HOME/.profile, if they exist, before the first command.
05-01-11 An argument parsing
bug that caused `kill -s x -- n' to fail has
been fixed.
05-01-11 +The .paths file, introduced in ksh93m, which can appear in

any directory in PATH, now allows a line of the form 'BUILTIN_LIB=.'
When a command is searched for this directory, and the full path
matches the path of the built-in version of the command (listed
by the 'builtin' command) then the built-in version of the command
is used. When ksh is built with SHOPT_CMDLIB_DIR=1 then all libcmd
functions become builtins with the '/opt/ast/bin/' directory prefix.
05-01-10 A bug in which a nameref to a compound name caused a core dump has
been fixed.
05-01-09 A bug in which some SIGCHLD interrupts (from child processes exiting)
caused a fatal print/echo error diagnostic has been fixed.
04-12-24 A bug in which some SIGCHLD interrupts (from child processes exiting)
corrupted the internal process/job list, sometimes causing the shell
to hang, has been fixed.
04-12-01 A bug in which typeset
-Fn truncated less than n digits for large
numbers has been fixed.
04-11-25 A bug in which standard error could be closed after a redirection
to /dev/stderr has been fixed.
04-11-17 A bug in which an expansion of the form ${array[@]:3} could expand
to ${array[0]} when ${array[3]} was not set has been fixed.
04-10-22 +The -E or -orc command line option reads ${ENV-$HOME/.kshrc} file.
04-10-22 +`-o foo' equivalent to `+o nofoo', `-o nobar' equivalent to `+o bar'.
`--foo' equivalent to `-o foo', `--nofoo' equivalent to `+o foo'
04-10-05 +The .paths file, introduced in ksh93m, which can appear in
any directory in PATH, now allows a line of the form
'BUILTIN_LIB=libname'. When a command is searched for this directory,
the shared library named by libname will first be searched for a
built-in version of the command.
04-09-03 <<< here documents now handle quotes in the word token correctly.
04-08-08 +The maximum size for read -n and and read -N was
increased from
4095 to 32M.
04-08-04 +printf %q was modified so that if an no operand was supplied, no
no output would be generated rather than a quoted empty string.
04-08-01 +The -n and -N options of the read builtin has been modified
when reading variables with the binary attribute so that the
data is stored directly rather than through assignment.
04-08-01 +The shcomp command has been modified to process alias commands
under some conditions.
04-07-31 +The .sh.match variable added in ksh93l, now works like other
indexed arrays.
04-07-08 A loop optimizer bug which occurs when typeset is used in
a for or while loop inside a function has been fixed.
04-06-24 +The number of subexpressions in a pattern was increased to 64
from the current number of 20.
04-06-17 +The -t option to read was modified to allow seconds to be
specified as any arithmetic expression rather than just
an integral number of seconds, for example even -t 'sin(.5)'

is now valid.
04-06-16
Two small memory leak problems were fixed.
04-06-15 A bug in ${var/pattern/"string"} which occurred when string
contained pattern matching characters has been fixed.
04-05-08 printf $'%d\n' produced an erroneous error message and has
been fixed.
04-05-24 A bug in which an associative array without any elements could
cause a core dump when a script with an associative array with
the same name was declared in a script invoked by name has
been fixed.
04-05-11 A bug in which an exec statement could close the script that
is being processed in a script that is run by name causing
a failure has been fixed.
04-04-28 +If the first character of assignment to an integer variable was 0,
the variable had been treated as unsigned. This behavior was
undocumented and has been removed.
04-04-05 A bug in which the positioning of standard input could be incorrect
after reading from standard input from a subshell has been fixed.
04-03-30 A bug in the
for loop optimizer which in rare cases could cause
memory corruption has been fixed.
04-03-29 +The preset alias source='command .' has been added.
04-03-29 A bug introduced in ksh93p on some systems in which invoked by
name with #! on the first line would not get the signals handling
initialized correctly has been fixed.
04-03-29 A bug introduced in ksh93p in which a HUP signal received by
a shell that is a session group leader was not passed down to
its children has been fixed.

04-02-28 --- Release ksh93p ---
04-02-28 +The ability to apply an append discipline to any variable has
been added.
04-02-14 A bug in which the exportall option (set -a) would cause incorrect
results for arrays has been fixed.
04-02-02 A bug in which an exported array would pass more than
the first element to a script invoked by name has been fixed.
04-02-02 A bug on some systems in which name=value pairs preceding a script
invoked by name was not getting passed to the script
has been fixed.
04-01-20 A bug in which an unset discipline function could cause a core
dump on some systems has been fixed.
04-01-12 A bug in which a continue or break called outside a loop from
inside a function defined with name() syntax could affect
the invoking function has been fixed.
04-01-08 If a command name begins with ~, only filename completion will be
attempted rather than pathname completion using the builtin editors.
04-01-08 A bug in the vi edit mode in which the wrong repeat count on

multiple word replacements with the . directive has been fixed.
04-01-06 Backspace characters are now handled correctly in prompt strings.
04-01-06 +The getopts builtin has been modified to accept numerical
arguments of size long long on systems that support this.
04-01-06 A bug in which unsetting all elements of an associative array
would cause it to be treated as an indexed array has been fixed.
03-12-15 A bug in which a quoted string ending with an unescaped
$ would
delete the ending $ in certain cases has been fixed.
03-12-05 A bug in which the shell could hang when set -x tracing a command
when an invalid multibyte character is encountered has been fixed.
03-12-05 On some systems, if the KEYBD trap is set, then commands that use
the meta key were not processed until return was hit. This
has been fixed.
03-12-05 A problem which occurred when the login shell was not a group
leader that could cause it to fail has been fixed.
03-12-05 A problem in which a shell could core dump after receiving a signal
that should cause it to terminate while it was in the process
of acquiring more space has been fixed.
03-12-05 +If ENV is not specified, the shell will default to $HOME/.kshrc
for interactive shells.
03-11-21 A bug introduced in ksh93o in which the DEBUG trap could get
disabled after it triggered has been fixed.
03-11-04 A bug in which using arithmetic prefix operators ++ or -- on a
non-lvalue could cause
a core dump has been fixed.
03-11-04 A bug in which leading zeros were stripped from variable
expansions within arithmetic computation to avoid being treated
as octal constants when they should not have, has been fixed.
03-10-08 A bug introduced in ksh93o in which a large here document inside
a function definition could get corrupted has been fixed.
03-09-22 A bug in which the .get discipline function was not being
called when a string variable was implicitly referenced from
within a numerical expression has been fixed.
03-09-22 A bug in which a script without a leading #! could get executed
by /bin/sh rather than the current shell on some systems has
been fixed.
03-09-12 +To improve conformance with ksh88, leading zeros will be ignored
when getting the numerical value of a string variable so that
they will not be treated as octal constants.
03-09-03 +The builtin kill command now processes obsolete invocations
such as kill -1 -pid.
03-09-02 The restriction
on modifying FPATH in a restricted shell (sh -r)
has been documented.
03-09-02 +The restricted shell (sh -r) has been modified to disallow
executing command -p.
03-08-07 A bug in which the KEYBD trap was not being invoked when

characters with the 8th bit set has been fixed.
03-08-02 A parser bug introduced in ksh93o which caused the character
after () in a Posix function definition to be skipped
when reading from standard input has been fixed.
03-08-01 A bug in which "${foo#pattern}(x)" treated (x) as if it were
part of the pattern has been fixed.
03-08-01 +The command -x option has been modified so that any trailing
arguments that do expand to a single word will be included
on each invocation, so that commands like command -x mv * dir
work as expected.

03-07-20 --- Release ksh93o+ ---
03-07-20 A bug in which could cause memory corruption when a posix
function invoked another one has been fixed.
03-07-15 A bug in which a file descriptor>2
could be closed before
executing a script has been fixed.
03-07-15 A parsing error for <() and >() process substitutions inside
command substitution has been fixed.
03-07-15 A parsing error for patterns of the form {...}(...) when
used inside ${...} has been fixed.
03-07-15 An error in which expanding an indexed array inside a compound
variable could cause a core dump has been fixed.
03-07-15 A bug in which on rare occasions a job completion interrupt
could cause to core dump has been fixed.
03-06-26 A bug in which process substitution embedded within command
substitution would generate a syntax error has been fixed.
03-96-23 A bug in which ${@:offset:len} could core dump when there
were no arguments has been fixed.
03-96-23 A bug in which ${X[@]:offset:len} could core dump when X
was unset has been fixed.
03-06-22 +The -x option was added to the command builtin. If this
option is on, and the number of arguments would exceed ARG_MAX,
the command
will be invoked multiple times with a subset of
the arguments. For example, with alias grep='command -x grep,
any number of arguments can be specified.
03-06-14 A bug in which could cause a core dump on some systems with
vi and emacs editors with the MULTIBYTE option has been fixed.
03-06-06 A bug in which the shell could core dump when a script was
run from its directory, and the script name a symlink to a file
beginning with .., has been fixed.
03-06-05 A bug in which the shell could core dump when a child process
that it is unaware of terminates while it is calling malloc()
has been fixed.
03-06-02 +An option named globstar (set -G) has been added. When enabled,
during pathname expansion, any component that consists only of ** is
matches all files and any number of directory levels.

03-05-30 A bug in which the PATH search could give incorrect results when
run from directory foo and PATH contained .:foo:xxx has been fixed.
03-05-29 +Some changes were
made to the code that displays the prompt in edit
mode to better handle escape sequences in the prompt.
03-05-27 I added = to the list of characters that mark the beginning of
a word for edit completion so that filenames in assignments
can be completed.
03-05-20 A bug in which read -N could hang on some systems when reading
from a terminal or a pipe has been fixed.
03-05-19 A bug in which the output of uname from a command substitution
would go to the standard output of the invoking command when
uname was invoked with a non-standard option has been fixed.
03-05-19 A job control bug which would cause the shell to exit because
it hadn't take back the terminal has been fixed. The bug
could occur when running a function that contained a pipeline
whose last element was a function.
03-05-19 A job control timing bug introduced in ksh93o on some systems
which could cause a pipeline to hang if the first component
completed quickly has been fixed.
03-05-13
+The read builtin has been modified so that the builtin editors
will not overwrite output from a previous incomplete line.
03-05-13 A bug in which the name of an identifier could have the string
.sh. prefixed to it after expanding a variable whose name begins
with .sh. has been fixed.
03-05-13 A bug in the expansion of $var for compound variables in which
some elements would not be output when the name was a prefix
of another name in the compound variable has been fixed.
03-05-08 The last item in the ksh93o release on 03-01-02 has been
altered slightly to preserve the leading 0's when the
preceding character is a digit. Thus, with typeset -LZ3 x=10,
$((1$x)) will be 1010 whereas $(($x) will be 10.
03-04-25 A bug in which if x is a name reference, then nameref y=x.foo
did not follow x has been fixed.

03-03-18 --- Release ksh93o ---
03-03-18 +A -N unary operator was added to test and [[...]] which returns
true if the file exists and the file
has been modified since it
was last read.
03-03-18 +The TIMEFORMAT variable was added to control the format for
the time compound command. The formatting description is
described in the man page.
03-03-06 +A -N n option was added to read which causes exactly n bytes
to be read unlike -n n which causes at most n bytes to be read.
03-03-03 +Three new shell variables were added. The variable .sh.file
stores the full pathname of the file that the current command

was found in. The variable .sh.fun names the current function
that is running. The variable .sh.subshell contains the depth
of the current subshell or command substitution.
03-03-03 +When the DEBUG trap is executed, the current command line after
expansions is placed in the variable .sh.command. The trap
is also now triggered before each iteration of a for, select,
and case command and before each assignment and redirection.
03-02-28 +Function definitions are no longer stored in the history file
so
that set -o nolog no longer has any meaning.
03-02-28 +All function definitions can be displayed with typeset -f not
just those stored in the history file. In addition, typeset +f
displays the function name followed by a comment containing the
line number and the path name for the file that defined this function.
03-02-28 A bug in which the value of $LINENO was not correct when executing
command contained inside mult-line command substitutions has been
fixed.
03-02-19 +Since some existing ksh88 scripts use the undocumented and
unintended ability to insert a : in front of the % and # parameter
expansion operators, ksh93 was modified to accept :% as equivalent
to % and :# as equivalent to # with ${name op word}.
03-02-14 A bug which could cause a core dump when reading from standard
error when standard error was a pty has been fixed.
03-02-14 +The shell arithmetic was modified to use long double on systems
that provide this data type.
03-02-09 A
bug in which a function located in the first directory in FPATH
would not be found when the last component of PATH was . and the
current directory was one of the directories in PATH has been fixed.
03-02-07 +The trap and kill builtin commands now accept a leading SIG prefix
on the signal names as documented.
03-02-05 A bug in the expansion of ${var/$pattern}, when pattern contained
\[has been fixed.
03-02-05 A bug in which .sh.match[n], n>0, was not being set for substring
matches with % and %% has been fixed.
03-01-15 A bug in which getopts did not work for numerical arguments specified
as n#var in the getopts string has been fixed.
03-01-09 A bug in which using ${.sh.match} multiple times could lead to
a memory exception has been fixed.
03-01-06 A bug in the expansion of ${var/pattern/$string} in the case that
$string contains \digit has been fixed.
03-01-02 +A -P option was added for systems such as Solaris 8 that support
profile shell.
03-01-02 For
backward compatibility with ksh88, arithmetic expansion
with ((...)) and let has been modified so that if x is a zero-filled
variable, $x will not be treated as an octal constant.

02-12-05 --- Release ksh93n+ ---
02-11-30 A bug that can show up in evaluating arithmetic statements that are in an autoloaded function when the function is autoload from another function has been fixed.
02-11-30 An optimization bug in which an expansion of the form ${!name.@}, which occurred inside a for or a while loop, when name is a name reference, has been fixed.
02-11-18 A bug in which modifying array variables in a subshell could leave side effects in the parent shell environment has been fixed.
02-11-18 A memory leak when unsetting an associative array has been fixed.
02-11-14 +The code to display compound objects was rewritten to make it easier for runtime extensions to reuse this code.
02-11-14 +A change was made to allow runtime builtins to be notified when a signal
is received so that cleanup can be performed.
02-10-31 +User applications can now trap the ALRM signal. Previously, the ALRM signal was used internally and could not be used by applications.
02-10-31 A bug in which signals received while reading from a coprocess for which traps were set was not handled correctly has been fixed.
02-10-31 A bug in which a file opened with exec inside a subshell could be closed before the subshell completed has been fixed.
02-10-21 A bug in which setting PATH or FPATH inside a function might not take effect has been fixed.
02-10-21 A bug which could cause a core dump when a local SECONDS variable is defined in a function has been fixed.
02-10-15 A bug in which the associate array name operator ${!array[@]} could return the same name multiple times has been fixed.
02-10-15 A bug in which the zero'th element of an associative array was not getting set when an assignment was made without a subscript specified has been
fixed.

02-09-30 --- Release ksh93n ---
02-09-30 +The maximum indexed array size was increased to 16Megs.
02-09-30 A bug which could cause a core dump when changing attributes of associative array has been fixed.
02-09-30 A bug in which exporting an array variable would not export the 0-th element has been fixed.
02-09-30 A bug in which an array assignment of the form a=($a ...) would unset 'a' before the right hand side was evaluated has been fixed.
02-09-27 A bug in which the error message for ${var?message} when var was null or unset did not contain the variable name var has been fixed.
02-09-27 A bug in which closing file descriptors 0 through 2 could cause a subsequent here document to fail has been fixed.
02-09-14 A bug in whence which occurs when the specified name contained a / has been fixed.
02-09-14 A bug in the parser for strings of the form name$((expr))=value

has been fixed.
02-09-14 A for loop optimization bug in which the number of elements
in
an array was treated as an invariant has been fixed.
02-09-09 A bug in which redirection or closing of a file descriptor between
3 and 9 could cause a subsequent here document to fail has been
fixed.
02-09-09 A bug in which a background job was not removed from the job list
when a subshell completed has been fixed, for example (prog&).
02-09-03 A bug in which an assignment of the form name=(integer x=3)
could be interpreted as an array assignment rather than a
compound variable assignment has been fixed.
02-08-19 A command completion bug which occurred on file systems that
are case insensitive has been fixed.
02-08-19 A bug which could lead to an exception on some systems (for
example FREEBSD) which occurred when setting PATH has been fixed.
02-08-11 A bug in arithmetic rounding in which a value input as a decimal
string would output as a rounded version of the string has
been fixed.
02-08-11 A bug in which the last character could be deleted
from shell
traces and from whence when called from a multibyte locale
has been fixed.
02-08-01 A bug which could cause a core dump to occur when a shell script
is executed while a coprocess is running that has closed the
output pipe has been fixed.
02-08-01 A bug in which command completion in multibyte mode could
corrupt memory for long command lines has been fixed.

02-06-17 --- Release ksh93n- ---
02-06-17 A bug in which user defined macros could cause a core dump in
with MULTIBYTE mode has been fixed.
02-06-17 A bug in which printf format specifiers of the form %2$s were causing
a core dump has been fixed.
02-06-17 A bug in which setting stty to noecho mode did not prevent the
echoing of characters by ksh when emacs or viraw mode
was enabled has been fixed.
02-06-17 A bug in which background job completion could cause the sleep
builtin to terminate prematurely has been fixed.
02-06-17 A bug in which the shell could core dump if getopts was called

when the OPTIND variable contained a negative value has been fixed.
02-06-10 +The edit mode prompt has been modified to handle escape sequences.
02-06-10 A bug which occurred for interactive shells in which the builtin
cat command was used in command substitution on a file whose
size was larger than PIPE_BUF has been fixed.
02-06-10 A bug in which the trap on ERR was not being processed when
set inside a function has been fixed.

02-06-07 A bug in which function definitions could cause the history count
to be decremented by one (and even become negative) has been fixed.
02-06-05 A bug in read in which share mode could be enabled has been fixed.
02-05-28 A bug which could occur when the last command of a script was
a case statement and the action selected ended in ;& instead of ;;
has been fixed.
02-05-23 A bug with unary + introduced in ksh93k has been fixed.
02-05-07 A bug in substitutions of the form ${var/pattern/string} in which
a backslash was
inserted in the replacement string when it contained
a special pattern character has been fixed.
02-05-01 A bug in the emacs edit mode which occurred in versions compiled
for multibyte character sets which occurred when a repeated search
was requested after a long line had been returned for the previous
search has been fixed.
02-04-02 +vi and emacs edit modes were modified so that tab completion is
disabled when invoked from the read built-in.

02-03-26 --- Release ksh93m+ ---
02-03-26 A bug in which \ was not handled correctly when used in file
expansion has been fixed.
02-02-18 A bug in which lines beginning with a # were deleted from here
documents when the here-document delimiter was followed by
a comment has been fixed.
02-12-06 An optimization bug in which ${!x[@]) was treated as invariant in
a for loop has been fixed.
02-02-06 A bug in which the ERR trap is not cleared for a script invoked
by name from within a function has been fixed.
02-01-08
A bug in which a shell script executed from within a subshell
could cause this script to have an invalid pointer leading
to a memory fault has been fixed.
02-01-07 +Added here documents of the form <<< word (as per zsh) which
is equivalent to << delim\nword\ndelim.
02-01-07 A bug in which the first word of a compound assignment,
x=(word ...), was treated as a reserved word has been fixed.
02-01-07 A bug in the handling of \ when noglob was enabled and a
substitution of the form ${word op pattern} occurred in the
same word has been fixed.
02-01-07 +A compilation option, CMDLIB_BLTIN in the file OPTION, has
been added. When this options is set, all commands implemented
in libcmd become shell builtin commands by default.
02-01-07 A bug in which builtin foo, where foo is already a builtin
would result in the builtin foo getting removed has been fixed.
02-01-07 A bug which the shell executed a command found in the current
directory when PATH have no
valid directories has been fixed.
01-11-28 The value of $? was not being set when called with exit.

01-11-28 If the last command was of the form (...) and a trap on EXIT or ERR was set, and the command inside () modified the trap, then the original trap wasn't executed.
01-11-26 +The value for 0 is now preceded by the base number when the base was not 10.
01-11-26 +The default has compilation mode has been changes so that viraw mode will always be on.

01-10-31 --- Release ksh93m ---
01-10-31 A for loop optimizer bug for subshells contained withing for loops has been fixed.
01-10-16 typeset without arguments no longer outputs variable names that do not have any attributes that are set.
01-10-16 A bug introduced in ksh93l in which assignments specified with the exec built-in were not being expanded properly has been fixed.
01-10-11 An optimization bug in which ${!x) was treated as invariant in a for loop has been fixed.
01-10-11 Unsigned integer variables
in bases other than 10 are printed now
expand in that base with the base prefix.
01-10-10 A number of typos in the self generating man pages for shell built-ins have been fixed.
01-10-04 The self generated man pages for hist and fc were not working correctly and have been fixed.
01-10-03 Yet another optimizer bug in which shell patterns were treated as invariants has been fixed.
01-09-27 Two bugs relating to multibyte history searches and to find have been fixed.
01-09-27 A bug introduced in ksh93k in which the PATH searching was not restored after running a command with an assignment list has been fixed.
01-09-26 A bug in which a zero filled field was treated as octal when converted to integer has been fixed.
01-09-26 Yet another bug in the optimization of for loops related to recursive functions with break or continue statements has been fixed.
01-09-25 +The exponentiation operator ** was added to the shell arithmetic evaluation. It has higher
precedence than * and is left
associative.
01-09-25 The code was modified to use the ast multibyte macros and functions for handing multibyte locales.
01-09-25 +The expansion ${parameter:offset:length} now handles negative offsets which cause offsets to be measured from the end.
01-09-25 Some spelling errors in the documentation were corrected.
01-09-24 +The /dev/tcp/host/port and /dev/udp/host/port now allow the ports to be specified by service name.
01-09-24 +The change staring with ksh93g in which the the appropriate

library path variable is prepended with a corresponding library directory has been modified. With the new method, only the library path defined in the file named .paths in the directory where the executable is found will be modified. See the man page for more details.

01-09-23 +The .fpath file (see ksh93h) is no longer looked for in each directory on the path to locate function directories. The file named .paths is used instead.

01-09-23

A bug in which IFS was not being restored after being changed in a subshell has been fixed.

01-09-16 +With the vi and emacs edit modes, after a list of command or functions is generated with = or M-= respectively, any element from the list can be pasted on the command line by preceding the = or M-= with a numeric parameter specifying the position on the list.

01-09-16 A bug in ksh93l caused command completion not to find aliases and functions. Command listing from the edit mode was presented in reverse order. This has been fixed.

01-09-13 Another bug in the optimization of for loops related to subshells when traps were set has been fixed.

01-09-07 A change in ksh93l caused brace expansion to stop working and this has been fixed.

01-09-04 A bug introduced in ksh93k in which an arithmetic statement within a function that used name references did not follow the reference has been fixed.

01-09-04 A bug introduced in ksh93l in which export -p did not prefix each export with the word export has been fixed.

01-08-29 A bug in multibyte input which occurred when a partial multibyte character was received has been fixed.

01-08-29 A bug introduced in ksh93l which could cause a core dump when an assignment list containing PATH is specified inside command substitution has been fixed.

01-08-09 Another bug in the optimization of for loops in ksh93l caused errors in recursive functions using local variables that contained for loops has been fixed.

01-07-27 A bug in which IFS would be unset after a command substitution inside a here document has been fixed.

01-07-26 To conform to the POSIX standard, if you invoked ksh name, and name does not contain a /, it will first try to run one in the current directory whether it is executable or not before doing a path search for an executable script. Earlier versions first checked for an executable script using the PATH variable.

01-07-23 A bug in which unset -f invoked in a subshell could unset a function defined in the parent has been fixed.

01-07-16 A bug in the optimization of for loops in ksh93l caused
name references to be treated as invariants has been fixed.
01-07-09 A bug in which a discipline function applied to a local variable
could cause a shell exception has been fixed. Discipline
functions can only be specified for global variables.

01-06-18 --- Release ksh93l ---
01-06-18 A bug in assigning integers larger than can be represented as
long integers to floating point variables has been fixed.
01-06-18 A bug in the handling of unsigned integers (typeset -ui) has
been fixed.
01-06-04 The evaluation of the PS1 prompt no longer effects the value
of the $? variable.
01-06-01 A small memory leak from subshells has been fixed.
01-05-22 A bug in which attributes for variables that did not have
values would be lost after a subshell has been fixed.
01-05-22 +The %R format has been added to
convert a shell pattern into
an extended regular expression.
01-05-22 +The escape sequences \e, \cX, \C[.collating-element.], and
\x{hex} have been added to ASCII-C strings and to printf format
strings.
01-05-20 +Patterns of the form {n}(pattern) and {m,n}(pattern) are now
recognized. The first form matches exactly n of pattern whereas,
the second form matches from m to n instances of pattern.
01-05-20 +The shell allows *-(pattern), +-(pattern), ?-(pattern),
{m,n}-(pattern}, and @-(pattern) to cause the minimal
match of pattern to be selected whenever possible rather
than the maximal (greedy) match.
01-05-20 +The character class [:word:] has been added to patterns.
The word class is the union of [:alnum:] and the character _.
01-05-20 +Inside (...) pattern groups, the \ character is now treated
specially even when in an enclosing character class. The
sequences, \w, \d, \s are equivalent to the character classes
word, digit, and space respectively.
The sequences \W, \D,
and \S are their complement sets.
01-05-20 +The shell now recognizes pattern groups of the form
~(options:pattern) where options or :pattern can be omitted.
Options use the letters + and - to enable and disable options
respectively. The option letters g (greedy), i (ignore case)
are used to cause maximal matching and to cause case
insensitive matching respectively. If :pattern is also
specified, these options are only in effect while this
pattern is being processed. Otherwise, these options remain
in effect until the end of the pattern group that they are contained
in or until another ~(...) is encountered. These pattern groups
are not counted with respect to group numbering.

01-05-14 When edit completion, expansion, or listing occurs in the
middle of a quoted string, the leading quote is ignored when
performing the completion, expansion, or listing.
01-05-14 A small memory leak from subshells has been fixed.
01-05-10
A bug in which open files were not restored after a subshell
that had used exec to replace a file has been fixed.
01-05-10 +Redirection to a null file name now generates an error message.
01-05-09 The shell now rejects some invalid parameter substitutions that
were previously processed in undefined ways.
01-05-09 A bug in which the output of select was not flushed before the
read when input did not come from the terminal has been fixed.
01-05-08 A bug in which job ids would not be freed for interactive shells
when subshells ran built-ins in the background has been fixed.
01-05-08 +The FPATH variable now requires an explicit . to cause the
current directory to be treated as a function directory.
01-05-08 A bug in read -n when echo mode was disabled has been fixed.
01-05-07 A bug in which function definitions could be listed as part
of the history has been fixed.
01-04-30 +This release uses a new and often much faster pattern matcher than
earlier releases.
01-04-30
+An optimizer now eliminates invariant parameter expansions from
for while and until loops.
01-04-30 +The variable .sh.match is set after each pattern match (# % or /)
in a variable substitution. The variable .sh.match is an
indexed array with element 0 being the complete match.
The array is only valid until the next subsequent pattern
match or until the value of the variable changes which ever
comes first.
01-04-30 +A self generating man page has been added to shcomp. Also,
shcomp now stops compiling when it finds an exit or exec
command and copies the remainder so that it can be used
for standard input.
01-04-30 +The shcomp command was modified so that it can work in an
EBCIDIC environment and that binary scripts are portable
across environments.
01-04-30 A bug in the handling of a trailing : in PATH has been fixed.
01-04-30 A bug in which the builtin version of a command would get invoked
even though the full pathname for the command
was specified
has been fixed.
01-04-30 A bug in which read would loose the last character when
reading the last line of a file that did not contain a new-line
character has been fixed.
01-04-23 A bug on some systems in which in vi mode the end of file
character and end of line character could be swapped has
been fixed.

01-04-23 A bug on some systems in which invoking a shell script that
did not have execute permission could set the exit value to
127 rather than 126 has been fixed.
01-04-20 A bug in which read -n from a pipe would block if fewer than
n characters was received has been fixed.
01-04-09 A bug in which invalid patterns, for example,) by itself,
was not treated as a string has been fixed so that if i=')',
then [[$i == $i]] is true.
01-04-09 +The shell arithmetic now interprets C character constants.
01-04-09 A bug in which a non-zero return from a function defined
with the function reserved word did not trigger the ERR
trap
or exit with set -e has been fixed.
01-04-02 A bug on some systems, in which characters above 127 were
not displayed correctly in vi or emacs edit mode has been fixed.
01-04-02 A bug on some systems, introduced in the 'k' point release, in
which the erase character in viraw mode was moving the cursor
to the left without erasing the character has been fixed.
01-04-02 On some systems the wcwith() function was returning a wrong
value for characters and caused characters to be displayed
incorrectly from the shell edit modes. A work around for
this problem has been added.
01-03-26 A bug in which valid scripts could produce syntax errors
when run with locales that considered characters such as """
to be space characters has been fixed.
01-03-20 A bug in which an syntax error in an arithmetic expression
entered interactively could cause the shell to go into
an infinite loop outputting the error message has been fixed.
01-03-10 +ksh93 accepts -l as a synonym
for -L in test on systems for
which /bin/test -l tests for symbolic links.
01-03-10 A bug in parsing scripts in which { and } are used in place of
in and esac in case statements embedded in compound commands
has been fixed. Use of { and } for in and esac is obsolete.
01-03-06 A bug in which an argument of the form foo=bar was not
being passed correctly to a traced function whose name
was foo has been fixed.
01-03-02 Using $(trap -p name) did not print the name of the current
trap setting for trap name.
01-02-26 Exported floating point variables gave incorrect results
when passing them to ksh88. This has been fixed.
01-02-25 A race condition in which a coprocess which completed too quickly
would not allow subsequent coprocesses to start has been fixed.
01-02-25 The 'g' format specifier is now handled by printf. It had
inadvertently been omitted.
01-02-20 The + was not being displayed during an execution trace
with the += assignment operator.
01-02-19

The error message which occurs when the interpreter name
defined on the #! line does not exist is more informative.
01-02-19 A bug in which $0 would not be set correctly when a
script with #! was invoked by full pathname from the
directory of the script has been fixed.
01-02-19 A shell script did not always pick up tty mode changes
made by external commands such as stty which could
effect the behavior of read.
01-02-19 The -u, -g, and -k unary tests did not give the correct
results when used with negation and this has been fixed.

01-02-05 --- Release ksh93k+ ---
01-02-05 The sequence \<newline> inside $'...' was not incrementing
the line count and this has been fixed.
01-02-05 +Modified expansion of "${@-}" so that if no arguments are set
it results in null string rather than nothing.
01-02-02 memory leak problem with local variables in functions fixed.
01-01-25 +allow arithmetic expressions with float%int and treat them
as ((int)float)%int rather
than as an error.
01-01-19 read -n1 was not working and has been fixed.
01-01-17 +ksh now handles the case in which a here document in command
substitution $() is terminated by the trailing). Previously,
a new-line was needed at the end of the delimiter word.
01-01-02 A bug in which a KEYBD trap would cause a multi-line token
to be processed incorrectly has been fixed.
00-12-10 +Arithmetic integer constants can now have L and U suffices.
00-12-10 A bug in the processing of arithmetic expressions with compound
variables when the -n option is on has been fixed.
00-12-08 A bug in M-f and M-b from emacs mode has been fixed. This
bug only occurs when ksh93 is compiled without MULTIBYTE enabled.
00-11-29 A bug in which jobs -p would yield 0 for background
jobs run in a script has been fixed.
00-11-21 A bug in integer arrays in which the number of elements is
incorrect when the ++ operator is applied to a non-existing
element has been fixed. For example,
integer x; ((x[3]++)).
00-11-20 A timing bug in which the shell could reset the terminal
group to the wrong value in the case that the a new process
changes the terminal group during startup has been fixed.

00-10-27 --- Release ksh93k ---
00-10-27 Using tab for completion now works only when applied
after a non-blank character at the end of the current line.
In other case a tab is inserted.
00-10-27 A bug in the emacs edit mode for ^X^E has been fixed.
The ^X^E sequence is supposed to invoke the full editor
on the current command.

00-10-18 A bug in which expansions of the form ${var//pattern/string}
  did not work correctly when pattern was '/' or "/" has
  been fixed.
00-10-18 +The output format for indexed arrays in compound variables
  has been modified so that it can be used as input.
00-10-18 Assignments with name references (typeset -n) will now
  implicitly unreference an existing name reference.
00-10-17 A bug the += append operator when a single
 array element
  is appended to a variable that is not an array has been fixed.
00-10-16 A bug in which the SIGCONT signal was being sent to
  each process will kill -0 or kill -n 0 has been fixed.
00-10-12 +The arithmetic evaluation portion has been rewritten to
  perform a number of optimizations.
00-10-10 A bug in which name prefix matching ${!name.*} was not
  checking name to see if it was a name reference has been fixed.
00-09-26 A bug in the multibyte version in which the width of for
  non-printing characters was not correct has been fixed.
00-09-12 +Made changes to get multibyte editing work on UWIN for windows
00-09-12 A bug in which multibyte characters would be displayed incorrectly
  has been fixed.
00-08-08 Removed build dependency on iswprint() and iswalph().
00-07-20 In some cases the read builtin would read more than a single
  line from a pipe on standard input and therefore leave the seek
  position in the wrong location.
00-07-05 +If the directory /
 is on the path, a / will not be inserted
  between the directory and the file name during path searching
  to avoid searching // for systems that treat this specially.
00-06-26 A bug in which on rare occasions wait could return before all
  jobs have completed has been fixed.
00-06-21 A bug in which backspace did not work correctly during the
  R replace directive in vi-mode has been fixed.
00-06-12 +Added variable name completion/expansion/listing to the set of
  completions. Variable name completions begin with $ or "$ followed
  by a letter.
00-05-09 --- Release ksh93j ---
00-05-09 Modified command substitution to avoid using /tmp files when
       run on read-only file systems.
00-04-17 +Modified printf to handle '%..Xc' and '%..Xs' options where X
  is not an alpha character. Previous versions core dumped with this.
00-04-10 +Changes to multibyte editing code were made to use standard
  ISO C functions rather than methods devised before the standard.
00-04-09
  Add %H options to printf to output strings with <"'&\t> properly
  converted for use in HTML and XML documents.
00-04-07 +Modified getopts builtin to handle \f...\f in usage string
  by invoking specified function.

00-04-04 Added self generating man pages for bg, fc, fg, disown, jobs,
  hist, let, ., and ulimit.
00-03-30 +The append operator += has been added and can be used
  for all assignments, strings, arrays, and compound variables.
00-03-30 +Code was modified in several places to support automatic
  generation of C locale dictionaries.
00-03-28 A bug in which the set and trap commands invoked with --name
  type arguments would terminate the invoking script has
  been fixed.
00-03-27 A bug in which the library path variable was not updated
  correctly on some systems as described in the 'g' point
  release has been fixed.
00-03-07 printf now returns a non-zero exit status when one of
      its arguments cannot be converted to the given type.
00-03-05 The return
 value and error message for a command that
      was found on the path but was not executable was set
      incorrectly.
00-03-05 A prototype for ioctl() was removed from the vi edit mode.

00-01-28 --- Release ksh93i ---
00-01-28 +Most of the built-in commands and ksh itself are now
      self documenting. Running command --man will produce
      screen output. Running command --html produces the
      man page in html format.
00-01-28 +The getopts builtin can process command description
      strings to produce man pages.
00-01-28 A bug in which a script could terminate when getopts
      encountered an error when invoked inside a function
      has been fixed.
00-01-28 When a symbolic link was specified as the name of
      the script to invoke by name, the value of $0 was
      set to the real file name rather than the link name
      in some cases and this has been fixed.
00-01-28 A bug in which the precision given as an argument

  to printf was not working has been fixed.

99-03-31 --- Release ksh93h ---
99-03-31 +The PATH search algorithm has been modified to look
  for a file named .fpath in each bin directory and if
  found, to search for functions in this directory if
  it cannot find the command in that directory.
99-03-31 +When performing pathname expansion, the shell checks
  to see whether each directory it reads is case sensitive
  or not, and performs the matching accordingly.
99-03-31 +The %T format for printing formatted date/time.
99-03-31 +The emacs and vi modes now handle arrow keys when

they use standard ANSI escape sequences.
99-03-31 +The TAB key can be used for completion in emacs and viraw mode.
99-03-31 A bug in setting .sh.editchar during the KEYBD trap
for the MULTIBYTE option was fixed in release ksh93h.
99-03-31 A bug in shcomp for compilation of unary operators with [[...]]
has been fixed.
99-03-31 A bug in which the value of $? was changed when executing

a keyboard trap has been fixed.
99-03-31 The handling of SIGCHLD has been changed so that the
trap is not triggered while executing trap commands
to avoid recursive trap calls.
99-03-31 A bug in which a local variable in a function declared readonly
would generated an error when the function went out of
scope has been fixed.
99-03-31 A bug in which \<new_line> entered from the keyboard
with the KEYBD trap enabled has been fixed.
99-03-31 The error message for a misplaced ((, for example print ((3),
was often garbled and has been fixed.
99-03-31 A bug in the KEYBD trap in which escape sequences of the form
<ESC>[#~ were not being handled as a unit has been fixed.
99-03-31 A bug in which ksh would consider expressions like [[(a)]]
as syntax errors has been fixed.
99-03-31 A function defined as foo() without a function body
was not reported as a syntax error.
99-03-31 A bug in which ksh could run out of file descriptors when
a stream was repeatedly
opened with exec and read from
has been fixed.

98-04-30 --- Release ksh93g ---
98-04-30 +The pipefail option has been added. With pipefail
enabled, a pipeline will not complete until all
commands are complete, and the return value will
be that of the last command to fail, or zero if
all complete successfully.
98-04-30 +The name-value pair library uses the cdt library rather
than the hash library. This change should be transparent
to applications.
98-04-30 +On the U/WIN version for Window 95 and Windows NT,
when a directory beginning with a letter followed by
a colon is given to cd, it is assumed to be an absolute
directory
98-04-30 +When an executable is found on a given path,
the appropriate library path variable is prepended
with a corresponding library directory.
98-04-30 A bug in which a name reference could be created to
itself and later cause the shell to get into an infinite

loop has been fixed.
98-04-30
A bug in shcomp relating to compound variables was fixed.
98-04-30 A bug introduced in ksh93e in which leading 0's in -Z
fields caused the value to be treated as octal for arithmetic
evaluation has been fixed.
98-04-30 A bug when a name reference with a shorter name than
the variable it references was the subject of a compound
assignment has been fixed.
98-04-30 A bug which in which assignment to array variables in
a subshell could effect the parent shell has been
fixed.
98-04-30 read name?prompt was putting a 0 byte at the end of the
prompt on standard error.
98-04-30 A bug in [[string1 > string2]] when ksh was run with -x
has been fixed.
98-04-30 A bug in which the escape character was not processed
correctly inside {...} when brace expansion is enabled
has been fixed, for example {\$foo}.
98-04-30 A bug in line continuation in here-documents has been
fixed.
98-04-30 The default base when not specified with typeset -i is
10 in
accordance with the documentation. Previously,
the value was determined by the first assignment.
98-04-30 A parsing bug in which a # preceded alphanumeric
characters inside a command substitution caused
a syntax error to be reported has been fixed.
98-04-30 A bug in which a decimal constant represented as 10#ddd
where ddd was more than five digits generated a syntax
error has been fixed.
98-04-30 A bug in here document expansion in which ${...} expansions
were split across buffer boundaries has been fixed.
98-04-30 +The sh_fun() function now takes third argument which
is an argument list for the invoked discipline function
or built-in.
98-04-30 +A callback function can be installed which will give
notification of file duplications and file closes.
98-04-30 When ksh is compiled on systems that do not use fork()
current option settings where not propagated to sub-shells.

97-06-30 --- Release ksh93f ---
97-06-30 +Hostnames in addition to host
addresses can be given in
/dev/tcp/host/port virtual file names.
97-06-30 File name completion and expansion now quotes special
characters in file names from both emacs and vi edit modes.
97-06-30 An empty for list behave like a for list with null expansions.

It produces a warning message with sh -n.
97-06-30 +The code has been modified to work with EBCDIC as well as ASCII.
97-06-30 A bug which would cause the secondary prompt to be
displayed when a user entered a literal carriage
return has been fixed.
97-06-30 A bug which caused ksh read -s name to core dump was
fixed.
97-06-30 A bug with the expansion of \} and \] inside double
quoted strings that also contained variable expansions
has been fixed
97-06-30 Changes in the ksh93e point release caused autoload
functions invoked from within command substitution
to fail. This has been fixed.
97-06-30 A bug in the processing of here-documents that could
prevent variable substitution to occur after
$(...) command
substitution for long here documents has been fixed.
97-06-30 A bug caused by a race condition that could cause SIGTERM
to be ignored by a child process has been fixed.
97-06-30 A bug which prevented the startup of a coprocess immediately
after killing a running coprocess has been fixed.
97-06-30 ulimit foobar, where foobar is not an arithmetic
expression, now gives an error message as it did with ksh88
instead of setting the file size limit to 0.
97-06-30 A bug which could cause an interactive shell to terminate when
the last process of a pipeline was a POSIX function was fixed.
97-06-30 A bug which could cause command substitution of a shell script
to core dump has been fixed.
97-06-30 A security hole was fixed in suid_exec.
97-06-30 Arithmetic functions such as pow() that take more than
one argument, did not work if arguments other than the
first contained parenthesized sub-expression.
97-06-30 The error message from a script containing
an incomplete
arithmetic expression has been corrected.
97-06-30 A bug which caused a core dump on some machines when
the value of a name reference contained a positional
parameter and the name reference was not defined inside
a function has been fixed.
97-06-30 Arithmetic expressions now correctly handle hexadecimal
constants.
97-06-30 A bug in which integer variables could be expanded
with a leading 10# when declared with typeset -i
multiple times has been corrected.
97-06-30 A bug in which IFS wasn't correctly restored when
set within command substitution has been fixed.
97-06-30 The _ character is now considered as part of a word
with the M-f and M-b emacs directives as it was in ksh88.

97-06-30 A bug in brace pattern expansions that caused expressions
such as {foo\,bar,bam} to expand incorrectly have been fixed.

96-07-31 --- Release ksh93e ---
96-07-31 +The math functions, atan2, hypot, fmod, and pow were added.
96-07-31 +When a
shared library is loaded, if the function lib_init()
is defined in the library, it is invoked the first time that
the library is loaded with builtin -f library.
96-07-31 The k-shell information abstraction database option, KIA,
has been revamped.
96-07-31 Empty command substitutions of the form $() now work.
whence -v foo now gives the correct result after calling
builtin -d foo.
96-07-31 A bug in right to left arithmetic assignment for which
the arithmetic expression ((y = x = 1.5)) did not
yield 1 for y when x was declared typeset -i was fixed.
96-07-31 printf has been fixed to handle format containing \0
and/or \0145 correctly. In addition, characters following
%b in the format string are no longer displayed when
the operand contains \c.
96-07-31 A bug in printf that could cause the %E format to
produce unnormalized results has been fixed.
96-07-31 A bug which causes some arithmetic expressions to be
incorrectly evaluated as integer
expressions rather
that floating point has been fixed.
96-07-31 Functions defined inside a subshell no longer remain
defined when the subshell completes.
96-07-31 The error message from sh -c ';echo foo' has been
corrected.
96-07-31 The format for umask -S has been changed to agree
with the specification in the POSIX standard.
96-07-31 A bug that caused side effects in subscript evaluation
when tracing was enabled for subscripts using ++ or --
has been fixed.
96-07-31 To conform to the Posix standard getopts has been changed
so that the option char is set to ? when it returns with
a non-zero exit status.
96-07-31 The handling of \} inside ${name...} has been fixed so
that the \ quotes the }.
96-07-31 A bug that caused the read builtin to resume execution
after processing a trap has been fixed.
96-07-31 [[-s file]] has been fixed so that if file is open
by ksh, it is flushed first.
96-07-31 In some cases attributes and sizes for non exported

variables weren't being reset before running a script.
96-07-31 The value of TMOUT was affected by changes make to it in a subshell.
96-07-31 The jobs command did not reflect changes make by sending the CONT signal to a command.
96-07-31 The error message for ksh -o unknown was incorrect.
96-07-31 Functions invoked as name=value name, did not use values from the calling scope when evaluating value.
96-07-31 A bug in which the shell would reexecute previously executed code when a shell script or coprocess was run in the background has been fixed.
96-07-31 A bug in which an empty here-document would leave a file descriptor open has been fixed.
96-07-31 A bug in which $(set -A array ...) would leave a side effect has been fixed.
96-07-31 A discipline function for a global variable defined within a function defined with the function keyword, incorrectly created a local variable of the same name and applied the discipline to it.

95-08-28 --- Release ksh93d ---
95-08-28 The \ character was not handled correctly in replacement patterns with ${x/pattern/replace}.
95-08-28 A bug with read in which the line did not end with a new-line has been fixed.
95-08-28 A bug in file name generation which sometimes appended a . for filenames that ended in / has been fixed.
95-08-28 +If a process is waited for after a status has been returned by a previous wait, wait now returns 127.
95-08-28 A bug with hist (fc) -e which prevented a command to re-executed after it had been edited has been fixed.
95-08-28 A bug which prevented quoting from removing the meaning of unary test operators has been fixed.
95-08-28 A bug with typeahead and KEYBOARD traps with the MULTIBYTE option set has been fixed.
95-08-28 +Builtin functions can take a third argument which is a void*.
95-08-28 The nv_scan() function can restrict the scope of a walk to the top scope.

95-04-31 --- Release ksh93c ---
95-04-31
The expansion of "$@" was incorrect when $1 was the null string.
95-04-31 A bug which could incorrectly report a syntax error in

a backquoted expression when a $ was preceded by \\
has been fixed.
95-04-31 A bug which prevented the shell from exiting after
reporting an error when failing to open a script
has been fixed.
95-04-31 A bug that could lead to memory corruption when a
large here document that required parameter or command
substitution was expanded has been fixed.
95-04-31 A bug that could cause a core dump on some systems
after ksh detected an error when reading a function
has been fixed.
95-04-31 A bug which could cause a coprocess to hang when
reading from a process that has terminated has been fixed.
95-04-31 A bug which caused a script to terminate when set -e
was on and the first command of and && or || list
failed has been fixed.
95-04-31 A bug with here documents inside $(...) when the delimiter
word is an identifier
has been fixed.
95-04-31 A bug which caused $0 to display the wrong value when
a script was invoked as an argument to the . command
and the eval command has been fixed.
95-04-31 A bug that could cause the built-in sleep to hang
has been fixed.
95-04-31 A bug introduces in 12/28/93b which caused the backslash
to be removed when it was followed by digit inside double
quotes in some instances has been fixed.
95-04-31 A bug which could cause a core dump if ksh was invoked with
standard input closed has been fixed.
95-04-31 A bug which could cause a core dump if typeset -A was
specified for an existing variable has been fixed.
95-04-31 Variables that were unset but had attributes such as readonly
and export were not listed with readonly, export and typeset.
95-04-31 Several problems with signals have been fixed.
95-04-31 A bug which prevented ulimit -t from working has been fixed.
Also, a bug in which failed ulimits could cause a core dump
has also been
fixed.
95-04-31 A bug in expansion of the form ${name/#pattern/string} and
${name/%pattern/string} has been fixed.
95-04-31 A bug which caused read -r on a line that contained only
blanks to get a non-null value has been fixed.
95-04-31 A bug introduced in the 'a' point release in which
${x='\\'} expanded to \ when x was unset has been fixed.
95-04-31 A bug which prevented a trap on EXIT from being executed
when the last command in a script was a function invocation
has been fixed.
95-04-31 A bug which caused an interactive shell ignore input when

standard error was redirected to a file with exec,
and then restored with exec 2>&1 has been fixed.
95-04-31 An interactive shell turns on monitor mode even when
standard error has been redirected to a file.
95-04-31 A bug which could cause standard input to be incorrectly
positioned for the last command of a script has been fixed.
95-04-31 A bug in the edit modes which allowed walking back in
the history
file for more than HISTSIZE commands has
been fixed.
95-04-31 A bug which could cause a core dump if variable TMPDIR was
changed between two command substitutions has been fixed.
95-04-31. A bug which prevented a trap on EXIT from being cleared
has been fixed.
95-04-31 A bug fixed for the v directive in vi MULTIBYTE has been
fixed.
95-04-31 Code to for IFS handling of multibyte characters has
been added.
95-04-31 The displaying of multibyte strings in export, readonly,
typeset, and execution traces has been fixed.
95-04-31 Variables inside functions are now statically scoped.
The previous behavior was never documented.
95-04-31 Variables inside functions are now statically scoped.
The previous behavior was never documented.
95-04-31 A few changes have been made to the name-value library
that affect built-ins that use disciplines. The
changes allow disciplines to be shared by variables
and should
make it possible to add new disciplines
without recompilation.
95-04-31 +The name-value library interface has undergone significant
change for this revision. See the new nval.3 man page.

94-12-31 --- Release ksh93b ---
94-12-31 +Variables inside functions are now statically scoped.
The previous behavior was never documented.
94-12-31 +If IFS contains two consecutive identical characters belonging
to the [:space:] class, then this character is treated as
a non-space delimiter so that each instance will delimit
a field. For example, IFS=$'\t\t' will cause two consecutive
tabs to delimit a null field.
94-12-31 +The getopts command has a -a name option that specifies a
name that will be used for usage messages.
94-12-31 A bug which caused unset RANDOM to dump core has been
fixed.
94-12-31 A bug which prevented return for terminating a profile
or ENV file has been fixed.
94-12-31 A bug which prevented standard input from being

directed to /dev/null for background jobs when
monitor mode was turned off has been fixed.
94-12-31 Statements of the form typeset -options var[expr]=value
did not perform substitutions on expr as expected.
94-12-31 A bug which prevented the shell from sending a HUP
signal to some background jobs that were not disowned
has been fixed.
94-12-31 A bug which allowed a script to trap signals that are
ignored at the time that the shell was invoked by exec
has been fixed.
94-12-31 A bug which could cause a core dump when a discipline
function was unset within a discipline was fixed.
94-12-31 The typeset builtin now accepts a first argument of
+ or - for compatibility with ksh88.
94-12-31 For compatibility with ksh88, the results of expansions
of command arguments will treat the extended character
match characters ()|& as ordinary characters.
94-12-31 A bug which caused read to fail on a file that was
open for read/write with <> when the first operation

was print or printf has been fixed.
94-12-31 When a job is suspended, it is put on the top of
the job list as required by the POSIX standard.
94-12-31 The value of OPTARG when an option that required
an argument but didn't have one was incorrect in the
case the the option string began with a :.
94-12-31 A bug which caused the terminal to get into a bad
state with some KEYBD traps in vi-mode has been fixed.
94-12-31 A bug which caused an invalid trap to cause a script
to terminate, rather than just return an error, has
been fixed.
94-12-31 Backreferencing sub-expressions in patterns and replacement
strings now works.
94-12-31 A bug in chmod which caused the -R option to fail has
been fixed.
94-12-31 +More signal names have been added for Solaris

94-06-30 --- Release ksh93a ---
94-06-30 An expansion bug which causes portions of a word after
a $((...)) expansion that contains a nested $var expansion
to be lost has been fixed.
94-06-30 A bug that
caused a core dump when a script that did not
have PWD set and did a cd inside command substitution
has been fixed.
94-06-30 A bug which caused a core dump on some machines when
the LANG variable was assigned to has been fixed.

94-06-30 A bug which incorrectly handled set disciplines that
performed arithmetic evaluation when the discipline
was called from the arithmetic evaluator has been fixed.
94-06-30 A bug caused by an EXIT trap inside a function that
was executed in a subshell was fixed.
94-06-30 If foo is a function, and not a program, then command foo
now reports that foo isn't found rather than invoking foo.
94-06-30 The previous version incorrectly listed -A as an
invocation option. The -A option is only for set.
94-06-30 A bug was fixed which caused ksh to loop when execution trace
was enabled and the PS4 prompt required command substitution.
94-06-30 A bug which could cause the job control switch character
to be disabled when a script
that enabled monitor mode
terminated was fixed.
94-06-30 A bug in the macro expansion global replacement operator //,
when the pattern began with a [or +(has been fixed.
94-06-30 A bug which prevented ~ expansion from occurring when
it was terminated with a colon inside an assignment
has been fixed.
94-06-30 A bug in the dot command which prevented autoload functions
from working has been fixed.
94-06-30 A bug which caused a variable to be unset if the
its value were expanded inside a set discipline has
been fixed.
94-06-30 Whence -a now longer reports that a defined function
is undefined.
94-06-30 A bug on some systems in which $0 would be incorrect
in scripts invoked by name has been fixed.
94-06-30 Here documents with an empty body now work.
94-06-30 A bug which disabled argument passing and resetting
of options for a script invoked by name inside a
function has been fixed.
94-06-30 A bug in which an EXIT trap set the caller of a function

would be executed if a command called inside a function
was not found has been fixed.
94-06-30 A bug which allowed a script to trap signals that are
ignored at the time that the shell was invoked has
been fixed.
94-06-30 A bug which caused 2<&1- when applied to a shell built-in
to leave standard input closed has been fixed.
94-06-30 A bug which caused the shell to incorrectly parse
$() command substitutions with nested case statements
has been fixed.

::::::::: libast :::::::::

12-07-25 pathprobe.c: fix read() loop to handle EINTR
12-06-28 vmalloc/malloc.c: use sbrk() unless VMALLOC_OPTIONS=mmap or asoinit(0,0,0)!=0 (workaround until next malloc update)
12-06-28 aso/aso.c: asoinit(0,0,0): 0: no specific init, 1: app initialized
12-06-27 sfio/sfvprintf.c: allow { L* z* } aliases for I* -- posix will probably pick one
12-06-26 regex/regnexec.c: fix uninitialized variable reference
12-06-26 comp/setlocale.c: utf8_wctomb() now calls (the corrrect) wc2utf8()
12-06-25
string/chresc.c: accept \u[U+<hex>] and \u{U+<hex>}
12-06-24 regex/regcomp.c: mb [^...] must be marked "complicated"
12-06-20 port/astconf.c: increase DEBUG_astconf error debug levels (may leach into rt output)
12-06-18 sfio/_sfopen.c: add 'e' => O_CLOEXEC
12-06-18 features/fcntl.c: add #define O_CLOEXEC 0 if not defined
12-06-13 features/float: handle __mips c99 peculiarities
12-06-13 features/standards: handle __MACH__ posix peculiarities
12-06-08 sfio/sfclose.c,sfmode.c: sfclose() for sfopopen() stream returns sh-compatible $?
12-06-08 comp/strtold.c: fix header botch that missed ldexpl() prototype -- ouch
12-06-06 misc/proclib.h: partially undo <ast_standards.h> for leaked ancient bsd-isms
12-05-31 misc/proclib.h: <ast_standards.h> for linux undefined struct mmsghdr*
12-05-31 error.h: add ERROR_PIPE(errno) to handle EPIPE and ECONNRESET
12-05-31 Makefile: don't install $(INCLUDEDIR)/prototyped.h: src/cmd/INIT does it
12-05-31 regcomp.c: add (?V...) ~(V...) REG_REGEXP switch
12-05-28
regex: regoff_t in => ssize_t via api 20120528
12-05-21 features/asometh: split intrinsic and method tests so code only instantiated in aso.c
12-05-21 comp/strdup.c: use oldof() since mem overwritten by string copy
12-05-18 misc/stk.c: fix access of moved realloc() data
12-05-15 misc/optget.c: #? option with no value should have opt_info.num==0
12-05-11 misc/stk.c: fix memmove() read of 1 uninitialized byte
12-05-11 regex/regcoll.c: avoid memcpy() to self
12-05-01 port/astconf.c: fix astconflist() to list standard minmax value if defined
12-04-26 sfio/sftmp.c: fix memory leak due to inadvertent SF_STATIC copy
12-04-26 sfio/sfwrite.c: fix subtle memory leak (with Vmlast or Vmpool or freeBSD malloc)
12-04-26 vmalloc/vmbest.c: SIGSEGV overcommit check for __linux__ only
12-04-25 vmalloc: add _vmfd() for private close-on-exec fds
12-04-23 sfio_t.h: change getr to 32 bits to prepare for UTF-8 delimiters
12-04-23 features/signal.c: add SIGSTKFLT
12-04-17 regex/regcomp.c: fix (E:...) vs
(E)... scoping
12-04-11 features/sys: add aix's _LARGE_FILE_API to the _LARGEFILE(64)?_SOURCE mix -- anyone else?
12-04-11 include/cmdarg.h,misc/cmdarg.c: (finally!) add a discipline with Cmdrun_f
12-03-28 vmalloc: int vs [s]size_t cleanup
12-03-27 sfio: fix #if logic that caused syntax errors (on 64 bit uwin)
12-03-10 misc/optget.c: HELP_index for "PLUGIN" too
12-02-29 include/shcmd.h: PLUGIN_VERSION 20111111 for cdt disc/meth change
12-02-29 comp/spawnveg.c: fix sigcritical() to include waitpid() for internal child
12-02-29 malloc.c: make __malloc_hook initialization thread safe

12-02-24 comp/iconv.c: fix winix UTF-8 vs UCS-2 over-conversion
12-02-24 astsa/*.h: clean up header guards
12-02-24 astsa/astsa.omk: clean up standalone old make makefile interactions
12-02-21 misc/cmdarg.c: fix bug that set argv[0]
12-02-10 sfvprintf.c: fix 1 byte too long buffer access
12-02-07 malloc.c/features/vmalloc: add gnu __malloc_hook tests
12-02-06 vmmopen.c: fix ALIGN vs sys/param.h macro conflict
12-02-02
astlicense.c: add license.component for component-specific licenses
12-01-31 spawnveg.c: fix transient bug that made invalid setpgid() call
12-01-27 pathpath.c: fix buffer size math when internal allocation requested
12-01-24 malloc.c: fix _vmkeep() bug that did not return previous state
12-01-23 malloc.c: add VMALLOC_OPTIONS=break to try sbrk() block allocator first
12-01-21 astlicense.c: option style only overrides default license.type
12-01-18 malloc.c: disable multiple regions for tracing or !vmbest or ASO_SIGNAL
12-01-12 sfpkrd.c: add __sun I_PEEK+rsh runtime workaround
12-01-10 shcmd.h: void* => Shbltin_t*
12-01-10 tmxdate.c: handle { n>=1000 } TM_PARTS
11-12-21 plug up some memory links -- thanks mhlavink
11-12-21 vmprivate.c: enclose VM_NONMEM exception in CLRLOCK(vm,0) ... SETLOCK(vm,0)
11-12-13 aso: in -lposix for uwin, not -last -- just like vmalloc
11-12-13 sfpoll.c: all streams SF_IOINTR => don't ignore EINTR
11-12-13 sfdcslow.c: set SF_IOINTR
11-12-09 malloc.c:
add _vmkeep() for setlocale() intercept _SYS_setlocale_free_OK
11-12-04 sfio: _Sfmaxr=0 (unlimited) by default; use ulimit -M|-d or SFIO_OPTIONS
11-12-01 aso: sync to new api
11-11-11 optget.c: move .TH to the top for --nroff to get our macros first
11-11-11 aso,cdt,vmalloc: resync with kpv
11-11-11 cdt: preserve bits and Dt_link_t for CDT_VERSION < 20111111
11-10-24 sfvprintf.c: %.-ns truncate from left to n chars
11-10-21 sfvprintf.c: fix %0s (no width) core dump
11-10-10 aso: add _WIN32 support
11-09-26 vmalloc: sync with kpv
11-08-29 features/{dirent,wchar,wctype}: eliminate #include with no header
11-08-25 #pragma prototyped tweaks -- sun4 is dead, long live sun4
11-08-25 ftwalk.c: FTS_SLNONE => FTW_SL
11-08-11 features/wchar: fix #include _nxt_wchar for K&R C
11-08-04 optget.c: tweak --html rendering
11-07-24 mime.c: add %(default)[st] default if arg == ""
11-07-21 setlocale.c: fix debug locale to treat "<<" as two single byte chars
11-06-14 spawnveg.c: pgid -1: new session -2: setpgrp()&&tcsetpgid()
11-06-14
pathprog.c: add darwin _NSGetExecutablePath
11-05-14 features/common,features/align.c: { _X86_ _X64_ } conditionals for generic uwin
11-05-13 tm/tminit.c: tweak tzname[] prototype
11-05-09 astlicense.c: add ". file" parent-relative include and depth 4 input stack
11-05-05 cmdarg: update to cmdopen_20110505 api

11-05-03 sfio/sfclose.c: make sure close() errors propagate to sfclose() return value
11-04-20 port/astlicense.c: add { id name } keys
11-04-15 fmtdev.c: fix to work for non-{blk,chr} special
11-04-12 stk: change size args to size_t and stseek() offset to ssize_t
11-04-12 sfio: sync with kpv to optimize large SF_STRING sfputr() buffer allocation
11-03-28 misc/fts.c: fix FTS_SLNONE logic to set it when it should!
11-03-17 misc/stk.c: fixed bug that could delete an active stack frame
11-03-10 sfio/sfvprintf.c: add %0<width>s to preserve <width> trailing chars in string arg
11-03-09 misc/magic.c: add %d...%s where if %d==1 then %s=="" else %s=="s"
11-03-09
misc/magic.tab: add windows ico
11-02-08 misc/stk.c: change STK_FSIZE to (1024*sizeof(char*)) for 64 bit normalization
11-02-02 sfio/sfmode.c: don't call sfsetbuf() on unbuffered stream to make it unbuffered
11-02-02 features/wchar: handle hp.ia64 va_list interactions
11-02-02 comp/omitted.c: fix mismatch between stat() vs _stat()
11-01-31 std/wctype,features/wctype: add to handle <wchar.h> interactions
11-01-28 add -lw for ancient sunos
11-01-28 include/magic.h,misc/magic.c: add MAGIC_ALL
11-01-27 tm/tmxfmt.c,tmpoff.c: %_z for SHH:MM
11-01-25 features/wchar: change <wctype.h> <wchar.h> ordering
10-12-24 sfstrtof.h: fix thousand grouping bug that did not check last group
10-12-21 pathkey.c: add win32 { /32 /64 } preroot to hash
10-12-09 pathprog.c: handle intermediate path != '* and fix invalid pathpath() call
10-12-01 astconf.c: fix look.standard undefined variable reference
10-12-01 sfset.c: SF_LINE|SF_WCWIDTH => no need for sfsetbuf() to call isatty()
10-12-01 sfsetbuf.c: cache
/dev/null <dev,ino> to cut down /dev/null stat()'s
10-12-01 optget.c: delay dictionary initialization until needed
10-11-30 malloc.c: drop { VMDEBUG VMETHOD VMPROFILE VMTRACE } env checks
10-11-30 port/astconf.c: eliminate esaccess() calls for OP_universe checks
10-11-24 regcomp.c: [[=]=]] must at least match itself in non-C locales
10-11-23 glob.h,glob.c: add GLOB_GROUP => REG_SHELL_GROUP
10-11-20 glob.c: handle mode switches across /
10-11-19 regcomp.c: REG_SHELL => REG_CLASS_ESCAPE
10-11-16 vmalloc.h: add VMFL tracing to vmstrdup()
10-11-16 ast.h: simplify VMDEBUG _BLD_DEBUG and VMFL logic
10-11-12 tm/tmlocale.c: ast TM_* extensions default to C locale
10-11-10 regex/regnexec.c,vmalloc/vmstat.c: eliminate strict-aliasing puns
10-10-20 misc/translate.c: change debug translation to drop " in (a,b,c,"d")
10-10-10 misc/glob.c: drop ancient D_FILENO(d)!=0 test and trust readdir()
10-10-06 misc/translate.c: fix "debug" locale logic
10-10-04 misc/magic.c: fix magic() skip check to honor the
continuation
10-10-04 regex/regcoll.c: add wchar_t* args to regcollate(), drop ucs name lookup
10-09-28 comp/setlocale.c: add utf8_wctomb()
10-09-28 string/chresc.c,regex/regcoll.c: fix \S[.X.] (\C[.X.] never worked!)
10-09-24 string/chresc.c: \Cc for control c, \S[.X.] for collating symbol X
10-09-24 string/chresc.c: { \cc \e } deprecated

10-09-22 regex/regcomp.c: fix off-by-one collation class allocation bug
10-09-20 regex/regclass.c: fix CTYPES off-by-one bug
10-09-14 comp/conf.sh: const int conf_elements, prefix_elements;
10-09-08 add features/sizeof => ast_sizeof.h
10-08-31 comp/getopt[l].c: export functions for dlls
10-08-25 port/lc.c: add features/locale check for canonical UTF-8 spelling
10-08-20 include/ast.h: add export plugin_version() prototype
10-08-20 comp/conf.tab: add SF_BUFSIZE
10-08-11 misc/conformance.c: conformance(0,0) => "standard"
10-08-11 misc/conformance.c: check ast_env_serial for dynamic astconf() changes
10-08-11 port/lcgen.c: remember to fudge Table_t.count
for synthesized entries
10-08-04 include/ast.h,comp/setlocale.c: add { debug C.UTF-8 } mbalpha() mbwidth()
10-08-02 misc/translate.c: add NLSPATH message cache check
10-07-29 string/fmtint.c: fix nasty bug that rendered "1000" as "1"
10-07-27 setlocale,lsgen,localeconv: handle C vs C_EU decimal thousands sep
10-07-26 misc/optget.c: fix interaction with nested plugin/builtin calls
10-06-29 string/strtoi.h: strton() multiplier 1 => power of two suffix
10-06-28 features/wchar: handle systems that require __va_list => va_list
10-06-28 comp/conf.tab: another PID_MAX tweak -- default to 99999 for most
10-06-28 port/astconf.c: lone "CONFORMANCE = standard" => all defaults standard
10-06-25 misc/optget.c: avoid sfprints() call during initialization
10-06-01 features/api, ast_api.h: formalized forwards/backwards api compatibility
10-06-01 _AST_API=20100601: add size_t args for all path*() output buffers
10-06-01 comp/setlocale.c: handle C.UTF-8 test locale
10-06-01 include/mc.h: add size_t
to mcfind() for result buffer (internal api)
10-06-01 use strlcpy() instead of strncpy()
10-05-28 include/ast_version.h: add AST_PLUGIN_VERSION for dllplugin()
10-05-28 include/shcmd.h: add SH_PLUGIN_VERSION for dllplugin()
10-05-28 misc/conformance.c: add conformance(3)
10-05-28 misc/optget.c: add [(id1|id2)...] conformance("id1|id2",0) conditionals
10-05-25 include/sfhdr.h: adjust SF_NMAP according to _ptr_bits
10-05-25 include/shcmd.h: add sh_builtin() macro for lib_init() table initialization
10-05-21 misc/optget.c: --html \bfoo::bar([[:digit:]][[:upper:]]*) => foo-bar.html
10-05-15 include/proc.h,misc/procopen.c: add PROC_ORPHAN
10-05-09 misc/optget.c: add --???MAN[section] --???SECTION
10-05-07 sfio,stdio: fix all snprintf() variants to handle buf==0 and/or n==0
10-05-04 string/fmtesc.c: add mb iswsoace() and iswcntrl() quoting checks
10-05-03 fix LC_MESSAGES catalog lookup bugs, check for $set==3, accept $set==1
10-04-30 string/chresc.c: add chrexp() for FMT_EXP_*
10-04-30 string/stresc.c:
add strexp() for FMT_EXP_*
10-04-30 string/chresc.c: fix \uXXXXY bug that consumed Y
10-04-22 misc/optget.c: check for html entities in <A name="...">
10-04-22 misc/getcwd.c: add features/syscall check for SYSGETCWD() { linux solaris }
10-04-22 string/stresc.c: wide chars absent locale guidance default to UTF-8
10-04-12 port/mnt.c: favor bsd getfsstat() over getmntinfo()

10-04-11 string/strtoi.h: k (1000) and ki (1024) now differentiated
10-04-10 misc/recstr.c: fix 'd[delimiter]' parse
10-04-08 include/vmalloc.h,vmalloc/vmstat.c: add Vmstat_t.mode region mode bits
10-04-05 misc/fts.c: drop 1997-01-07 fts_open()=0 is one file and stat() fails
10-04-05 misc/optget.c,optlib.h: add Optpass_t.release for --nroff .TH
10-04-02 misc/optget.c: fix $'[-n?\n...]' --version bug
10-04-02 regex/regcomp.c: ~(X) => REG_EXTENDED|REG_AUGMENTED, ~(PU) instead of ~(U)
10-03-24 misc/procopen.c: add PROC_FD_CTTY(fd)
10-03-24 path/pathtemp.c: fix pointer => int casts
10-03-15 regex/regcache.c: fix
1 byte buffer overflow (didn't count trailing \0)
10-03-08 features/tvlib: fix utimensat probe to include all macros/structs
10-03-07 features/lib: change stream_peek to test pipes only
10-03-07 string/strelapsed.c: fix next char return overrun
10-03-06 tm/tvtouch.c: use runtime fallback if utimensat() fails with ENOSYS
10-03-05 path/pathtemp.c: add pfx /seed for regression testing
10-03-04 vmalloc/vmwalk.c: add user supplied handle arg
10-03-04 path/pathtemp.c: properly handle mktemp()-style *+(X) templates
10-03-03 include/ast_getopt.h: remove NULL guard - _AST_GETOPT_H now handles it
10-02-24 comp/getopt.h: fix ast_std.h interactions
10-02-24 vmalloc/malloc.c: empty { VMALLOC_OPTION VMDEBUG ... } => no debug!
10-02-02 string/base64.c: fix corner case output buffer overflow
10-02-02 features/fs: sys/mnttab.h requires stdio.h on some systems!!
10-02-01 misc/optget.c: uppercase --html heading -- doh
10-01-29 misc/optget.c: [+NAME?...] overrides error_info.id for >= STYLE_man
10-01-25
vmalloc/vmprivate.c: fix seg ptr initialization bug (24 years old!!)
10-01-20 misc/optget.c: handle nested {...} rendering
10-01-20 misc/state.c: add ast.version for runtime api version
10-01-20 port/astconf.c: "_AST_VERSION" now returns ast.version
10-01-20 include/ast_std.h: add ast.version for runtime api version
10-01-19 astlicense.c: add epl
10-01-01 vmalloc: VMALLOC_OPTIONS env var for all runtime options
10-01-01 include: change some <ast.h> refs to less intrusive <ast_*.h>
10-01-01 setlocale.c,translate.c,fmterror.c: AST_LC_internal retains prev state
10-01-01 comp/setlocale.c: AST_LC_setenv defers to LC_ALL (for sh)
10-01-01 ast_std.h: add { AST_LC_internal AST_LC_setenv }
09-12-24 comp/setlocale.c: fix setlocale(LC_ALL,"") when already initialized
09-12-17 misc/optget.c: handle mixed solaris usage="x:f:(in)yo:(out)"
09-12-11 regex/regcomp.c: posix semantics for [z-a]
09-12-11 regex/regcomp.c: fix BRE/ERE ^^ logic
09-12-11 regex/regcomp.c: fix regcomb() for REG_LEFT|REG_RIGHT
09-12-11
regex/regcomp.c: bm complete=0 if REX_END
09-12-11 comp/sigflag.c: add with npt check in features/sig.sh
09-12-11 tm/tminit.c: fix _tzset_environ logic
09-12-09 tm/tmlocale.c: include "ast_nl_types.h" to pull nl_langinfo in!
09-12-04 features/options: add "opt map-libc" check

09-12-03 tm/tmxdate.c: fix 'next month final day' for dec -> jan
09-11-21 misc/magic.tab: add gimp XCF
09-11-20 vmalloc/vmtrace.c: add pid to assertion disgnostics
09-11-11 regex.h,regcomp.c: add REG_CLASS_ESCAPE, \ inside [...] literal by default
09-11-03 regex/regcache.c: change to variable length pattern strings
09-10-28 include/error.h: fix ERROR_translate() arg parens
09-10-26 port/lcgen.c,comp/setlocale.c: handle LANG init after LC_* already defined
09-10-05 _sfopen.c: add but ignore 'F' flags for stdio compatibility
09-09-28 fts.h,ftwalk.h,fts.c: promote { namelen pathlen level } to (s)size_t
09-09-28 locales: add AST_LC_LANG for $LANG
09-09-28 setlocale.c: fix logic for dynamic { LANG LC_ALL LC_*
} changes
09-09-17 include/sfio.h,sfio/sfwalk.c: add sfwalk()
09-09-09 sfio/sfputr.c: add SIGPIPE hang fix
09-08-24 sfio/sfreserve.c: fix SF_UNBOUND logic with pushed streams
09-08-18 include/ast_std.h,ast.h: add ast.mb_sync to sync mbchar() after error
09-08-17 comp/setlocale.c: add AST_LC_utf8 and { utf8_mbtowc() utf8_mblen() }
09-08-11 comp/setlocale.c: treat "en"/"en_US" AST_LC_MESSAGES as "C"/"POSIX"
09-08-10 vmalloc/vmhdr.h: add user-defined _AST_PAGESIZE and computed VMHEAPINCR
09-08-09 comp/conf.tab: add NPROCESSORS_MAX
09-07-29 astlicense.c: fix first name=value logic error
09-07-22 string/fmtip6.c: don't drop trailing 0 in 44::1:0:0
09-06-30 port/astconf.c: standard PATH_RESOLVE is "physical" (not "metaphysical")
09-06-19 vmalloc: sync with kpv
09-06-19 include/shcmd.h: add sh_context(p) cast
09-06-11 misc/magic.tab: differentiate pc 386 32/64 bit dll/exe/obj
09-06-06 port/astconf.c: fix look->name null pointer reference
09-06-05 port/astconf.c: fix 'UNIVERSE = value' synthesize
logic
09-05-25 tm/tmxduration.c: add
09-05-08 comp/syslog.c: add _UWIN /var/log/syslog preference
09-05-01 comp/setlocale.c: fix _UWIN intercepts to return NiL on unknown locales
09-04-27 sfio/sfpool.c: fix bug that did not return pool on delete
09-04-22 include/regex.h,regex/regcomp.c: add REG_REGEXP <regexp.h> compatibility
09-04-15 tm/tmxdate.c: handle "4th thursday in november"
09-03-31 string/strvcmp.c,string/strnvcmp.c: add version strcmp(3)
09-03-31 string/strpcmp.c,string/strnpcmp.c: add path prefix strcmp(3)
09-03-29 misc/optget.c: clean up num = number casts
09-03-04 tm/tmxmake.c: add tmxtm() with zone override
09-03-03 tm/tmxfmt.c: add %(...)<c>, specifically %(...)z for output zone
09-02-22 tm/tmxdate.c: add iso P... durations
09-02-02 path/pathprog.c: add
09-02-02 misc/opthdr.h,optget.c: fix flags mixup, handle old '-' as option
09-02-02 sfio/sfprints.c: fix sfvaprints() return value to not count trailing '\0'
09-02-02 misc/cmdarg.c: handle !defined(ARG_MAX)
09-02-02
port/astconf.c: fix UNIVERSE overwrite of null[] value!
09-01-31 features/sys: drop header sys/localedef.h

09-01-28 include/fs3d.h,misc/fs3d.c: mount() => fs3d_mount() for diff std prototypes
09-01-14 misc/fts_open.c: delay top list reorder until first fts_read()
09-01-14 include/ls.h: LS_W_INUMBER => 9 to accomodate large st_ino
09-01-14 misc/optget.c: expand STYLE_usage input text
09-01-09 features/uwin,stdio/_stdfun.c: iffe for _p__iob and __p__iob
09-01-09 misc/magic.tab: add ISO filesystem image entries
09-01-07 string/strtoi.c: strtol() etc. do not consume [lLuU] suffix -- thanks jkf
09-01-07 sfio/sfstrtof.h: strtod() etc. do not consume [fFlL] suffix -- thanks jkf
09-01-05 string/strlcat.c: fix logic to match docs (not that easy)
08-12-30 tm/tmxdate.c,include/tm.h: add TM_WORK { "workday" "working" "work" }
08-12-28 sfio/sfcvt.c: fix 'a' format rounding
08-12-21 tm/tmdata.c: add 2008-12-31+23:59:60-0000 leap second event
08-12-19 tm/tmxdate.c: check for dates near the epoch rolling
back to the future
08-12-19 tm/tmxfmt.c: change %s for now==0 to be the epoch
08-12-07 include/ast_std.h,misc/getenv.c: no _ast_getenv for uwin ast54 compatibility
08-12-07 tm/tmxfmt.c: add %[_][EO]K for [space pad] [full|long] iso
08-12-07 sfio/sfvscanf.c: fix ok[] short by one allocation
08-12-07 comp/setlocale.c: fix off by one composite initialition loop test
08-12-07 path/pathkey.c: fix off by one loop test
08-12-04 vmalloc/vmbest.c: catch sbrk() wraparound
08-12-04 comp/spawnveg.c: clean up attrs on failure too
08-11-04 regex/regcomp.c: fix locale [!-...] and [^-...] re-initialization
08-11-04 stdio: add flockfile.c ftrylockfile.c funlockfile.c
08-10-24 port/astconf.c: handle multiple/trailing '/' in universe initialization
08-09-10 misc/magic.c: handle old vcodex() indices
08-09-10 sfio/sfvprintf.c: drop SF_WCWIDTH, use %Lc or %Ls instead
08-09-05 Makefile: ibm.risc joins the :NOOPTIMIZE: crowd
08-09-04 regex/regnexec.c: fix nested delimiter match beyond end of subject
08-08-20
misc/fts.c: fix st_nlink stat() optimization logic
08-08-19 sfio/sfpkrd.c: workaround macosx recv(PEEK) data consumption on non-socket
08-08-19 strn?tol?d: handle long double with smaller exponent range than double
08-08-18 sfio/sfcvt.c: eliminate excessive multiplies and integral overprecision
08-08-11 tm/tmxfmt.c: handle %10N and %010N
08-08-06 include/shcmd.h: add 'int invariant;' for builtin invariant arg count
08-08-05 features/ndbm: favor sleepycat ndbm compatibility
08-07-21 include/glob.h,misc/glob.c: GLOB_STARSTAR only forces lstat on chdir
08-07-17 sfio: sync with kpv
08-07-17 misc/optget.c: call astwinsize() each time terminal width required
08-07-16 sfio/sfvscanf.c: fix %% to skip leading space per posix
08-07-16 vmalloc/vmbest.c: add VMCHECK=m, VM_mmap to favor mmap() alloc
08-07-16 features/stdio,stdio/f(read|write).c: size_t return value!! ouch
08-06-24 tm/tmxfmt.c: fix %z to handle tm_isdst -- doh
08-06-24 misc/astintercept.c,misc/getenv.c: split from misc/setenviron.c
08-06-17
misc/setenviron.c: add { astintercept() getenv() }
08-06-09 tm/tmlocale.c: use _DATE_FMT if defined for TM_DEFAULT

08-06-06 misc/optget.c: handle sub-component about details
08-06-04 misc/optget.c: fix [-n?\n...\n] version parse
08-06-04 include/debug.h,misc/debug.c: merge with kpvdebug.h
08-06-02 features/ndbm: add to tame dbmlib.iffe replication
08-06-01 comp/resolvepath.c,realpath.c: fix resolvepath() return value type
08-05-22 tm/tmxdate.c: fix a few ordinal/last/this/next bugs
08-05-18 string/fmtre.c: fix omitted stack var initialization bug
08-05-14 regex/regcomp.c,regcoll.c: fix UTF-8 collation sequence logic
08-05-11 tm/tmxfmt.c: :NOOPTIMIZE:, otherwise %Q/../../ fails
08-05-01 tm/tmxdate.c: mon 1..12 => mon[13] -- doh
08-04-30 misc/glob.c,reegex/regcomp.c: ~(R) => ~(O) to avoid pcre clash
08-04-24 port/astconf.c: 'name = value' does assignment without system init
08-04-15 port/astconf.c: SC#N treated like 'SC(N)'
08-04-14 misc/optget.c: clean up nroff output
08-04-01
port/astconf.c: add RELEASE => /proc/version fallback
08-03-30 misc/optget.c: [-n]... to enable -number & +number options
08-03-06 misc/optget.c: ---* and +++* are now operands
08-03-06 misc/errorx.c: fix old error_info.translate workaround
08-02-05 regex/regcomp.c: allow REG_SHELL {,n}... => {0,n}...
08-02-27 misc/stk.c: top element during allocation relocated to top
08-02-18 include/ip6.h,string/strtoip6.c,fmtip6.c: add ipv6 addr support
08-02-14 regex/regsubexec.c: fix null match (tricky)
08-02-14 regex/regsubcomp.c: fix SRE to match ksh
08-02-11 comp/spawnveg.c: return proper errno on [v]fork() failure
08-02-11 tm/tmxdate.c,tmdata.c: handle more ISO 8601:2000 forms
08-02-02 regex/reglib.h: add REGMULTIREF to REG_COMP
08-02-02 string/strmatch.c: fix str="" pat="" sub values
08-01-31 comp/conf.sh,conf.tab: handle /bin/sh \ in read data, redir subshell
08-01-18 misc/magic.tab: amd-x68, 64-bit => x86-64
08-01-18 string/strnton.c,strntonll.c: add
07-12-10 string/strelapsed.c: "0"
is a valid elapsed time!
07-12-02 sfio/sfreserve.c: preserve SF_SHARE sfrd() via sfreserve(f,0,0)
07-11-21 comp/setlocale.c: add sjis_mbtowc() to work around [\~] translation
07-11-15 features/signal.c: RT(1) .. RT(MAX-1) => RTMIN+1 .. RTMAX-1
07-11-14 features/float: favor sscanf() due to gnu strto[l]d() nan bugs
07-10-31 regex/regcomp.c: fix REX_COLL_CLASS node allocation size
07-10-31 sfio/sfcvt.c: use signbit() if available
07-10-31 features/isoc99: _ISOC99_SOURCE tests
07-10-31 port/astmath.c: add -DN=8 for signbit()
07-10-31 sfio/sfstrtod.h: don't forget about -0.0
07-10-26 features/map.c: add { optopt optarg optind opterr }
07-10-26 features/stdio: add _filbuf => _ast__filbuf
07-10-26 comp/getsubopt.c: fix #undef that interfered with <ast_map.h>
07-10-26 regex/regcomp.c: fix bug that missed ')' in ~(F)...
07-10-12 port/astconf.c: fix CONF_ALLOC 16 bit overflow
07-10-12 misc/fts.c: fix fts_close() to free the handle -- doh

07-10-11 comp/setlocale.c: second and subsequent setlocale(*,"")
reverts to previous
07-10-11 path/pathprobe.c: add vfs ST_NOSUID check
07-10-10 comp/conf.tab: add a few more xpg6 deferrals
07-09-28 astsa: update to share with mainline src via _PACKAGE_astsa
07-09-25 sfio/sfgetr.c: no limit on string stream line size
07-09-25 sfio/sfextern.c: increase _Sfmaxr to 256*1024
07-09-18 misc/procopen.c: tighten up SIGCHLD logic between parent/child
07-09-18 misc/signal.c: unblock SIG_DFL after setting handler, sig<0 => don't unblock
07-09-13 misc/fs3d.c: no $LD_PRELOAD => no 3d and avoids invalid mount(2) call
07-09-11 vmalloc: vmstat(0,0)==1 => region in use, drop VM_primary|VM_secondary
07-09-05 misc/recstr.c: handle [lL] gobbled by strtol() -- ouch
07-08-17 path/pathprobe.c: handle '\r' in VERSION string
07-07-17 regex/regcache.c: regcache(0,n,0) extends cache to size n (no shrinking)
07-07-16 tm/tmdata.c: add 2005-12-31, drop 1999-12-31 (where did that come from?)
07-05-21 tm/tmxfmt.c,tmxscan.c: %F => %L (TM_DEFAULT); %F => %Y-%m-%d
07-05-15 sfio/sfvprintf.c:
%h? and SFFMT_SHORT => raw bytes
07-05-09 features/signal.c,features/siglist: use kill -l & strsignal()
07-04-25 misc/optctx.c: add for opt_info switching
07-04-24 misc/cmdarg.c,include/cmdarg.h: add CMD_CHECKED, CMD_SILENT
07-04-24 misc/procopen.c,include/proc.h: add PROC_CHECK
07-04-24 misc/procrun.c: add flags arg (current use PROC_ARGMOD)
07-04-24 misc/cmdarg.c,include/cmdarg.h: move from src/cmd/tw
07-04-20 port/(lclang.h|lc.c|mc.c|lclib.h|lcgen.c): separate lctab.c
07-04-20 comp/conf.sh: defer to systems without 'grep -q' -- sigh
07-04-20 comp/conf.sh: probe for LL integer constant initializer suffix
07-04-20 include/syslog.h: <namval.h> => <ast_namval.h> for win32
07-04-20 ast_namval.h: add as copy of include/namval.h for win32
07-04-19 comp/conf.tab: fix SVID SI entries to probe SI_* (not _SI_*)
07-04-13 tm/tmxdate.c,tm/tmzone.c: handle [-+]0000 UTC zone offset
07-04-11 sfio/sfvprintf.c: add %F, propagate SFFMT_UPPER
07-04-11 sfio/sfcvt.c: handle SFFMT_UPPER =>
nan/inf vs. NAN/INF
07-04-02 comp/conf.tab,comp/conf.sh: add C/POSIX <stdint.h> symbols
07-03-28 misc/optget.c: fix l10n --?-
07-03-25 features/common: fix { ast_std.h ast_map.h stdint.h } logic
07-03-21 error.h: move from error_info to (*_error_data_)
07-03-21 misc/error.c: add errorctx() for error_info switching
07-03-21 option.h: move from opt_info to (*_opt_data_)
07-03-19 regex/regdecomp.c: fix REX_ONECHAR escapes and add REX_KMP
07-03-11 tm/tmxscan.c,regex/regnexec.c: fix strict-alias transgressions
07-02-27 comp/conf.sh: handle native getconf invalid numeric values
07-02-21 comp/conf.sh,comp/conf.tab: handle SSIZE_MAX vs _POSIX_SSIZE_MAX
07-02-20 sfio/sfvprintf.c: handle SF_WCWIDTH justification
07-02-14 features/common: cover <stdint.h>, move to int_(bits)_t
07-02-14 include/int.h: drop
07-02-14 include/sfio.h: add SF_WCWIDTH

07-02-12 comp/conf.sh: fix CONF_LIMIT bug that missed ULONG_MAX etc.
07-02-12 comp/conf.tab: *LONGLONG* => *LLONG* to match posix
07-02-12 features/float:
LONGLONG => *LLONG* to match posix
07-02-12 port/astconf.c: handle CONF_LIMITS_DEF with no deferral
07-02-12 stdio/vasprintf.c: add trailing '\0' -- doh
07-02-04 string/fmtelapsed.c: fix naive multi month/year logic
07-02-02 misc/optget.c: add --??posix for getopts(1)/getopt(3)
07-01-26 string/chresc.c: use mbchar()
07-01-26 misc/optget.c: handle "o:-:" usage for old-style long options
07-01-22 sfio/sfdisc.c,sfpool.c: handle push on streams with pending peek
07-01-22 include/sfio.h: mv Sfieee_t to sfio/sfhdr.h
07-01-17 tm/tmxfmt.c: fix terminating nil logic which clobbered size-1
07-01-11 misc/stk.c: a 2 day marathon bug fix (can we release now dr ek?)
07-01-05 comp/spawnveg.c: posix_spawnattr_setflags(POSIX_SPAWN_SETPGROUP)
07-01-05 misc/error.c: fix multibyte vs. printable logic
07-01-01 comp/conf.sh: LC_ALL=C
06-12-26 tm/tmxdate.c: handle nn*.nnnn* == sec.ns
06-12-20 features/libpath.sh: generalize sol.* LIBPATH patterns
06-12-18 comp/setlocale.c: include ast_standards.h and ast_wchar.h
!
06-12-12 string/strperm.c: octal modes are absolute!
06-12-11 comp/conf.tab: always defer ARG_MAX
06-12-07 Makefile: fix conftab.c generation CCFLAGS to match build - doh
06-12-04 sfio/sfcvt.c: fix (int) vs. (long) cast mismatches
06-12-01 comp/conf.tab: add changes to cover solaris { bin xpg4 xpg6 }
06-12-01 regex/reginit.c: adjust { SRE KRE } escaped (){}*? inside [...]
06-12-01 sfio/sfcvt.c: add signbit/copysign tests
06-11-22 comp/spawnveg.c: fix _real_vfork logic to work with 3d
06-11-20 features/common: bias _ast_int8_t "long long" before "__int64"
06-11-20 string/strperm.c: fix X to work with all ops (not just +)
06-11-15 astconf.c,conf.tab: add CONF_DEFER_* for variable constants
06-11-11 port/astconf.c: validate path arg w.r.t. underlying calls
06-11-11 comp/conf.sh: fix S CONF_STANDARD bug, add D to defer to native
06-11-11 comp/conf.tab: add D to defer to native
06-11-01 include/vmalloc.h: avoid VM_FLAGS sys/v*.h clash
06-11-01 include/ast.h: add FMT_PARAM for fmtquote()
06-10-31
disc/sfdcseekable.c: add SFSK_DISCARD for seekable window control
06-10-31 comp/spawnveg.c,features/lib: handle posix_spawn exit status 127
06-10-30 features/lib: fix posix_spawn() fork() prototype conflicts
06-10-30 string/fmtscale.c: fix 1024 rounding bugs
06-10-27 disc/sfkeyprintf.c: handle 'i' (=='d') -- oops
06-10-26 sfio/sfvprintf.c: %#d => fmtscale(1000), %#i => fmtscale(1024)
06-10-26 features/map.c: _map_libc cleanup
06-10-26 features/fcntl: add to the circle of trust
06-10-26 features/sys: add <sys/socket.h> socklen_t
06-10-26 include/regex.h: handle include before <ast_map.h>

06-10-25 astconf "SHELL" => "SH" to avoid _POSIX_SHELL conflict
06-10-25 comp/conf.*: drop no-op duplicate conftab.c entries
06-10-18 string/fmtscale.c: 1000: n[.]n[n](kMGTPE), 1024: n[.]n[n](KMGTPE)i
06-10-11 ast_std.h: now implies <sys/stat.h> (did on most before anyway)
06-10-11 strtoi.h: ignore sign for 0, validate scale shift
06-10-11 strdup.c,vmstrdup.c: handle 0 arg
06-10-11 add sfstruse()/sfstropen()
error checks
06-10-10 misc/procopen.c: envv==environ => don't modify environ
06-10-10 misc/procclose.c: return valid exit(1) status
06-10-06 port/astconf.c,comp/conf.sh,comp/conf.tab: play nice with getconf(1)
06-10-01 comp/conf.tab: SHELL default checks { _CS_PATH } X { ksh ksh93 sh }
06-10-01 comp/conf.sh: export CONF_getconf to shell actions
06-10-01 comp/putenv.c: always enable setenv() for procopen()
06-10-01 misc/procopen.c: use pathshell() or astconf("SHELL",0,0) if PARANOID
06-10-01 path/pathshell.c: localize the shell path patterns and accept ksh93
06-09-28 Makefile: avoid ast <stdio.h> vix iffe -X ast -- doh
06-09-27 regex/regdecomp.c: add
06-09-26 regex/regcomp.c: handle KRE ~(...)<invalid-kre>
06-09-25 reorganize to avoid native header intercepts
06-09-15 uwin/crypt.c: _UWIN only!
06-09-14 Makefile: tweak the ast_common.h bootstrap again (finally?)
06-09-14 misc/optget.c: noncommercial => OPT_proprietary
06-09-12 string/strelapsed.c: fix multi-char qualifier
parse
06-09-12 string/strtoi.h: drop [cClLqQwW] multipliers
06-09-11 misc/optget.c: add numeric arg validity check
06-09-07 misc/optget.c,tm/tmfix.c: fix uninitialzed var refs
06-09-05 path/pathprobe.c: add version header verification
06-08-01 Makefile: handle iffe vs FEATURE/common vs ast_common.h
06-08-31 Makefile: add ast_map.h to the bootstrap list
06-08-30 misc/glob.c: fix ~(E)re bug that stripped ~(E) before regcomp
06-08-30 include/ast.h: add { integralof(x) pointerof(x) }
06-08-27 string/strelapsed.c: fix off-by-one (too little) parse bug
06-08-25 misc/optget.c: 0*<n>.* numeric option args => <n>.*
06-08-22 misc/glob.c: handle ~(...) pattern options
06-08-16 string/strelapsed.c: fix off-by-one (too far) parse bug
06-08-16 regex/regcomp.c: accept but ignore ~(N)
06-08-14 features/libpath.sh: add solaris LD_LIBRARY_PATH_64 check
06-08-05 sfio/sfpool.c: pool SF_READ|SF_WRITE loop fix
06-08-02 misc/fts.c: fix FTS_NOSTAT optimization to check for ..
06-07-28 include/glob.h: add
gl_extra for user globlist_t expansion
06-07-27 features/common: #include "ast_map.h"
06-07-26 comp/fnmatch.[ch]: allow <ast_map.h> to map fnmatch()
06-07-22 cdt: snarf from kpv
06-07-17 string/strperm.c: perm==-1 skips umask(1)
06-07-17 sfio/sfvprintf.c: handle format invalid mb seq

06-07-17 regex/regcomp.c: inline REG_SHELL => anchored, otherwise not
06-07-17 regex/regcomp.c: inline B|G:basic E:REG_EXTENDED F|L:REG_LITERAL
06-07-17 regex/regcomp.c: inline l:REG_LEFT r:REG_RIGHT
06-07-17 regex/regcomp.c: inline a:REG_LEFT|REG_RIGHT p:~REG_LENIENT
06-07-17 string/chresc.c: add \Uxxxxxxxx
06-07-17 sfio/sfstrtof.h: ignore thousands sep after decimal
06-07-17 string/tokline.c: splice() => spliceline() for bsd
06-06-27 features/float,sfio/sfcvt.c: fix Nan logic
06-06-27 port/astmath.c: fix long double isnan() test
06-06-27 features/map.c: _map_libc for std => _ast_std
06-06-25 string/strperm.c: handle posix = w.r.t. umask
06-06-19 port/mnt.c,features/fs: handle netbsd getmntent api change
06-06-18
regex/regstat.c: add REG_LITERAL check
06-06-11 cdt/dtview.c: update from kpv
06-05-31 sfio/sfhdr.h: fix _SFOPEN() typo
06-05-09 comp/conf.sh: add native getconf -a names to the mix
06-04-28 misc/optget.c: add solaris long option name compatibility
06-03-09 string/strmatch.c: add REG_ADVANCE => REG_* flags
06-02-14 comp/iconv.c: fix uwin iconv_list() /reg/ generator
06-02-10 port/astconf.c: relax standard prefix filter
06-02-08 sfrd.c,sfsync.c: lock logic bug fix
06-02-01 port/astlicense.c: add { parent incorporation }
06-01-26 port/astconf.c: fix { LIBPREFIX LIBSUFFIX } length
06-01-06 features/lib: change _UNIV_DEFAULT probe to use cross{...}
06-01-04 misc/stk.c: fix n**2 realloc behavior
06-01-01 include/sfio.h: export { _Sfi _Sfmaxr }
05-12-13 string/chresc.c: handle \C-X => control-X, \M- => ESC
05-11-22 regex/regcache.c: add, convert string/strmatch.c to regcache()
05-10-06 string/ccmap.c: update ebcdic-u to be idempotent
05-09-28 vmalloc: snarf from kpv; fixes large
block brk() thrashing
05-09-26 misc/magic.c,misc/magic.tab: handle latest vcodex header
05-09-12 misc/optget.c: reset opt_info.offset on error
string/strtoi.h: strton() '.' multiplier only if m>1
string/fmtesc.c: add unadvertized FMT_PARM for FMT_SHELL
05-09-09 string/fmtesc.c: fix FMT_SHELL logic w.r.t. [$`]
05-08-11 string/strerror.c: fix { sys_errlist sys_nerr } prototypes
05-08-03 sfio: snarf sfvaprints sfaprints
05-07-21 port/astconf.c: retain most recent synthesized lookup
05-07-20 sfio/sfsetbuf.c: default file io size now 64K on all systems
05-07-17 ccmap*: add microfocus cobol EBCDIC_U
05-06-29 regex/regcomp.c: fix the A & B inline flag logic
05-06-15 include/recfmt.h: add fs format flag to fmtrec()
05-06-14 error.c: add ERROR_OPTIONS { break count match }
05-06-07 features/stdio: drop FEATURE/limits to fix bootstrap circular dep
05-06-02 features/*,Makefile: drop vestigel iffeio.h bootstrap workaround
05-05-31 string/fmtbuf.c: unlock (spin) before each return -- doh

05-05-30
sfio/sfpkrd.c: work around macos 10.4 recv(MSG_PEEK) bug
05-05-27 regex: add REX_NEST (?%[S.][T.][OT])
magic.tab: ammend bsd db magic
05-05-23 regex: REX_NEST (?%[D.][E.][L.][Q.][oc]...)
05-05-21 regex: state.fold[] is now locale specific -- doh
05-05-19 regex: add REX_NEST (?%\\()<>[]""...) %(...) nested match
05-05-15 recfmt.h: add recstr() reclen() fmtrec()
05-05-13 optget.c: allow boolean options to take numeric values
05-05-12 recfmt.c: add to recfmt.h, adjust Recfmt_t encodings
05-04-30 sfio: add sfmaxr(), default 64K
05-04-22 comp/omitted.c: fix magic() logic for files < 512 bytes
05-04-20 cdt: snarf update from kpv; void* Dt_t.user added
misc/error.c: library => ERROR_LIBRARY
05-04-19 regex/regcomp.c: handle REG_SHELL [^...] == [!...]
05-04-11 tm/tmxscan.c: handle yyy.mm.dd[-+.]hh.mm.ss.nnnnnn
05-04-07 regex/regnexec.c: fix out of bounds boundary check -- ouch
features/align.c: add jmp_buf to the alignment mix (ia64)
vmalloc/vmhdr.h: add jmp_buf to the alignment mix
(ia64)
05-03-31 misc/optget.c: fix option { - _ } separator matching
05-03-30 misc/glob.c: eliminate superfluous GLOB_NOMATCH stat() calls
05-03-24 port/astwinsize.c: include <sys/ioctl.h> if possible
05-03-23 string/ccmap.c: add ebcdic-m mvs cobol table
05-03-11 comp/omitted.c: handle utime[s](const,const)
comp/conf.tab: fix linux PID_MAX probe
05-03-10 comp/setlocale.c: LC_* value "" => unset -- doh
misc/optget.c: reorder _PACKAGE_astsa code for msgcc
05-03-08 misc/optget.c: delete leading space in STYLE_nroff output
05-03-07 sfio/sfhdr.h: drop extern _sfdscan -- clashes with sfvscanf.c static
05-03-01 tm/tminit.c: add tmlocaltime() for tzset() getenv() override workaround
05-02-20 features/tvlib: tmsettimeofday only for systems that have settimeofday
features/float: fix mvs.s390 NaN tests
05-02-18 tm/tmxmake.c: fix <0 west of GMT bug that warped to 1800's -- wow
05-02-11 port/mnt.c: handle lynxos MOUNTED=/etc/fstab
05-02-08 features/float,sfio.h,sfcvt.c,sftable.c: add INF and
fix NAN
05-02-04 features/lib: add _std_strtol (for lynxos)
include/ast_std.h: add _std_strtol tests
comp/strtod.c: #define S2F_function strtod
misc/signal.c: fix ancient bsd SV_INTERRUPT vs. SV_ABORT clash
05-01-11 sfio/sfmove.c: try to seek(fr) when fw==0
comp/omitted.c: intercept utimes() too
comp/omitted.c: add DOSPATHVARS env var path value conversions
features/tvlib,tm/tvtouch.c: check for utimets()
misc/optget.c: handle '-' or '_' option word separators
sfio/_sfopen.c: allow stream mode changes after initialization
sfio: sync with kpv: SF_SYNCED fix for ksh input loss bug

05-01-09 tm/tmxfmt.c: fix %6N for n<100000000
05-01-08 regex/regcomp.c: conj() => con() to avoid C99 clash
05-01-05 tm/*: fix { %U %V %W } logic -- my head hurts
04-12-30 tm/tmxtime.c: fix tm_isdst<0 loop
04-12-23 vmalloc/vmbest.c: fix vmresize bug that didn't 0 new data
04-12-19 misc/optget.c: broaden - long option match
04-12-09 string/strtoi.h: fix terabyte 't' suffix math
  string/strmatch.c:
 flush cache on locale change
04-12-01 tm/tmsleep.c: add
  tv.h,tv*.c,tv.3: move from pax
  tmx.h,tmx*.c,tmx.3: add high resolution tm(3) counterparts
  features/lib: add *another* sgi linux.ia64 memccpy bug check
04-10-31 Makefile: __OBSOLETE__ now computed <6 months ago year>0101
  ccode.h,ccmapid.c: add ccmaplist(Ccmap_t*) iterator
  option.h,optesc.c: add 3rd arg, 1 => quote '?' too
  misc/magic.c: fix bug that terminated `string \0a' at \0
  misc/magic.c: handle vcodex() via decompose()
  misc/magic.tab: add vcodex magic
  features/stdio: handle _LARGEFILE64_SOURCE -- oops
  stdio/(fseek|ftell|fseeko|fsetpos|fgetpos|ftello).c: oops^2
04-10-28 string/swapop.c: size==-4 => size=4 and extend op=3 to op=7
  tm/tmfix.c: fix tm_mon<0 logic
04-10-22 tm/tmdate.c: handle 'final day feb 2004'
  port/astlicense.c: add query=all|id|${...}${...}
  port/astlicense.c: "free" => "mit"
  comp/omitted.c: revert to the open source license
  string/stropt.c: drop siz==0 => tab is hash table
  include/sfio.h:
 incorporate <sfstr.h>
  include/sfstr.h: drop
  disc/sfstrtmp.c: drop -- use sfstrbuf()
04-10-20 misc/magic.tab: update tar magic
04-10-18 ufc-crypt.h,crypt_util.c: drop GPL code
  crypt.c: add BSD code
  pathpath.c: disable { $0 $_ $PWD } related root search
04-10-01 normalize ident stamps
  port/astlicense.c: add type=cpl -- yeah
04-09-25 string/swapop.c: return op < size -- duh
04-09-23 comp/spawnveg.c: :NOOPTIMIZE: -- volatile sometimes ignored
04-09-21 comp/spawnveg.c: exec_errno_ptr is volatile -- duh
04-09-14 tm/tmscan.c: add %| alternation and %& => tmdate()
04-09-08 misc/optget.c: add :!value: omitted optional arg value
  misc/optget.c: fix --noNAME ambiguous option logic
04-08-26 string/strperm.c: add who^mode to propagate least restrictive up
  astmath.c: add { frexpl ldexpl } checks for ast.req
  port/astlicense.c: ignore first option if non-assignment
  include/ast_dir.h: move d_fileno map before struct defs -- duh

04-08-24 vmalloc/vmbest.c: add {VM_region} VMCHECK=+r
 for region segment checks
  misc/recfmt.c,include/recfmt.h: add
04-08-23 vmalloc/vmbest.c: add {VM_primary VM_secondary} VMCHECK=-s for primary
  features/common: punt to <stdarg.h> for unknown va_list
04-08-11 vmalloc: sync _UWIN libposix hooks
04-07-27 features/common,features/limits.c: ULL suffix for unsigned _ast_int8_t
04-07-22 include/ast.h,comp/eaccess.c: add eaccess() for effective access()
04-07-19 comp/open.c,sfio/_sfopen.c: { O_RDONLY O_WRONLY O_RDWR } are values
04-06-28 misc/error.c: check level after error_info.auxilliary
04-06-24 string/strmatch.c: strgrpmatch() match[] now variable size array
04-06-17 features/common: change _DLL null define to (the standard ast) 1
04-06-11 misc/optget.c: allow optional [-|+|--|++] optstr() option prefix
  misc/optget.c: reset optstr() state on 0 return
  misc/optget.c: text()=>textout() linux.ppc symbol hijack workaround
04-05-31 sfio/sfreserve.c: no side buffer if user buffer is large enough
04-05-27 string/fmtbuf.c: handle one
 concurrent buf > sizeof(buf)
04-05-24 regcomp.c: fix no-advance initialization
04-05-05 conf.tab,conf.sh: update to align with standards
  magic.tab: ms suffix update
04-05-04 port/lcgen.c: fix territory initialization
04-04-15 tm/tmdate.c,include/tm.h: fix specific and ordinal days
04-04-08 astconf: retain { HOSTTYPE LIBPATH LIBPREFIX LIBSUFFIX } strict vals
04-04-07 vmalloc/vmbest.c: fix alpha tiny block bug
  vmalloc/malloc.c: re-enable on alpha
04-03-30 tm/tminit.c: GMT => UCT only if tz.daylight not defined
04-03-25 vmalloc/malloc.c: _AST_std_malloc=1 for __alpha
  path/pathprobe.c: per-user probe dir => $HOME/.probe/$HOSTTYPE
04-03-23 regex/reglib.h: fix isw*() redefines
04-03-17 features/stdio: no __FILE override for __CYGWIN_ (sys/reent.h clash)
  sfio/sfhdr.h,sfio/sfsetbuf.c: lower sfmove() default buf size 4x
04-02-29 comp/omitted.c: move env trace after PATH fixup
  comp/omitted.c: cygwin spawn _P_DETACH => _P_NOWAIT+setpgid(pid,0)
  misc/optget.c: fix html mailto: match

 port/astlicense.c: add type=test for fixed 2001 date
  features/float: check local NaNQ first
  vmalloc/vmhdr.h: fix _vmextern_ vm_truncate return type
  misc/magic.tab: add elf s390 index=22
04-02-26 vmalloc: VMCHECK a:assertions c:arena-check w:warn-instead-of-abort
  sfio/sfvscanf.c: fix extf arg selection
04-02-24 features/dirent: set nodefine to avoid ast_std.h _typ_off64_t undef
  disc/sfkeyprintf.c: only case pattern must be ()[] balanced
04-02-14 include/sfio_t.h: add SF_DCDOWN, SFDCNEXT(), SFDCPREV()
04-02-13 string/strmatch.c: fix bug that didn't save one-time sub[] size
  vmalloc: -g: export VMCHECK=1 enable malloc/free checks
  vmalloc: -g: free(0) to check and disable malloc/free checks

vmalloc: -g: free(1) to check and enable malloc/free checks
04-02-11 Makefile: add :P=A: to conf and lcgen exec for cross-compile
regex: use MBSIZE() instead of mbsize() to grab 1 char on err
vmalloc/vmbest.c: updated to do more comprehensive DEBUG tests
04-02-04 sfio/sfraise.c: add
sfraise(0,a,b) to iterate over all streams
04-02-01 vmalloc/vmbest.c: _BLD_DEBUG free(0) checks the arena
04-01-31 features/vmalloc: fix typo that missed _mmap_zero
04-01-23 string/strerror.c: handle real strerror() return value overwrite
04-01-11 path/pathpath.c: fix size vs. sizeof(buf) typo
03-12-22 misc/magic.tab: dos EXE tweaks
03-12-05 vmalloc: sync with kpv, adding exceptf announcements
03-12-04 port/astlicense.c: fix expand() loop sentinel bug
03-12-02 include/ast.h: mbchar() advances by 1 on mbtowc() error
misc/fts.c: increase MINNAME to 32
03-11-21 vmalloc/vmbest.c: export VMCHECK=1 to enable $(CC.DEBUG) vmcheck()
vmalloc/vmbest.c: export VMCHECK=2 to disable KPVCOMPACT
misc/magic.c: add { cobol copybook pl1 } and suffix preference
03-11-12 features/stdio: drop cuserid,getopt for SUSV3
03-11-11 vmalloc/*: merge kpv update -- this should stomp the compaction bug
03-10-23 comp/iconv.c: fix sfreserve lock fallback
03-10-20 sfio/_sfopen.c: add to allow user sfopen()
intercept
03-10-17 regnexec.c: fix exec time REG_LEFT, \x.... => wctomb()
03-10-12 string/strtoi.h: fix strton '.' overconsumption
03-10-12 comp/iconv.c: identity is always (iconv_t)0
03-10-09 string/fmtesc.c: fix FMT_SHELL to check for all shell magic chars
03-10-01 port/astlicense.c: unknown authors copied verbatim (instead of ignored)
03-09-30 string/chresc.c: handle \u..., \x... consumes all trailing hex digits
string/stresc.c: \u... and \x... > UCHAR_MAX => wctomb()
03-09-29 fnv.h: add
03-09-23 modedata.c: table is for external modes, so no arch specific hacks
optget.c: fix option prefix match translation bug
optget.c: add `<length> <name>=<value>\n' to optstr()
features/lib: add memcmp() test for sgi optimzation bug
03-09-22 regex.h,regcomp.c: add regncomp()
regclass.c: fix for loop dangling ; in regaddclass()
03-09-20 sftable.c,sfvprintf.c: fix SFFMT_CHAR handling to match extf api
03-09-19 sfmode.c: update release to kpv's
03-09-17 regcomp.c: add pedantic backref error
checks
03-09-16 regnexec.c: exec time REG_LEFT => don't advance past initial position
regclass.c: add regaddclass() for user defined [:class:]
regexec.h: REG_VERSION_N2X, add redisc_t {re_map} ccode map
regstat.c: add regstat_t
03-09-11 optget.c: --n:=v sets opt_info.assign=':', opt_info.number enabled
03-09-09 disc/sfkeyprintf.c: *pn on lookup is arg separator; lookup "" arg too
03-09-05 optget.c: [f:l*?] preserves user long name past '*' in opt_info.name[]

03-09-03 sfstr.h: add sfstrpend() for #pending bytes in read buffer
03-08-25 regex: add REG_FIRST, optimize bm
features/lib: _AST_no_spawnveg==1 falls back to fork/exec
03-08-22 features/stdio,stdio/asprintf.c,stdio/vasprintf.c: add
03-08-21 path/pathnative.c,path/pathposix.c: interix updates
features/botched: add cygwin _stat => _stat64
03-08-15 include/ast.h: map out bsd strmode()
features/common: add interix _ast_intmax_t workarounds
misc/fs3d.c: 3d mount test now uses "" instead of NiL (or cygwin dumps)
03-08-11
string/fmtesc.c: fix optional quoting checks
tm/tmdate.c: fix > 1 year of seconds arithmetic
tm/tmfix.c: fix leap year adjustments
03-08-01 features/lib: beef up sock_peek test for interix
03-07-29 features/float: add -lm to frexp... test
Makefile: fix -lm astmath test sense
03-07-26 features/mem.c: favor _mem_sbrk over _mem_mmap_*
03-07-22 vmalloc/vmbest.c: fall back to sbrk() if mmap() fails
features/mem.c: _mem_sbrk means sbrk() and brk() work
03-07-17 regex/regcomp.c: fix bug that treated KRE X{n,m} like {n,m}(X)
misc/magic.c: check MAGIC_VERBOSE for all load() messages
03-07-14 misc/optget.c: handle [...]{[...]\f...\f...}
03-06-21 misc/sigcrit.c: block SIGCHLD if _lib_sigprocmask || _lib_sigsetmask
comp/spawnveg.c,sfio/sfmode.c: use sigcritical() SIG_REG_* macros
comp/spawnveg.c: drop ENOEXEC logic
vmalloc/*: snarf kpv KPVCOMPACT() fix
vmalloc/vmbest.c: export VMCHECK=2 to disable KPVCOMPACT (just in case)
string/strdup.c: drop __strdup() etc. intercepts -- malloc
gets it
features/mem: define _mem_method and _mem_* possible values
vmalloc/malloc.c: _AST_mem_method==_mem_* to force mem get method
sfio/sfputr.c: __ia64 memccpy is bogus -- how many tries do they get?
path/pathshell.c: verify abs path and access(path,X_OK) -- duh
vmalloc/vmhdr.h: add private _Vmessage() for non-sfio ASSERT()
port/astconf.c: fix bug that always returned the minmax value
03-06-11 comp/*.c: reorder macro hding for mvs.390 and <ast_map.h>
features/vmalloc: add _lib_brk and _lib_sbrk verification
include/ast_std.h,etc.: add _map_malloc for malloc => _ast_malloc
comp/conf.sh: fix SI_* and *_SI_* macro redefs
ast.h: VMDEBUG or _BLD_DEBUG enable <vmalloc.h> and VMFL tracing
vmalloc/vmtrace.c: _PACKAGE_ast __FUNCTION__ is a string
vmalloc/vmtrace.c: set trace file fd FD_CLOEXEC
vmalloc/vmbest.c: set /dev/zero mmap fd FD_CLOEXEC
features/mmap: fix ancient read() vs. mmap() time arithmetic typo
vmalloc/malloc.c: _AST_std_malloc==1 to force
standard malloc
03-06-09 comp/omitted.c: add _imp__FUNCTION sybols for __CYGWIN__ static link
vmalloc/vmbest.c: handle systems with sbrk() but no brk()

03-06-04 port/astconf.c: drop non-standard diagnostics
03-06-03 comp/conf.sh: rework symbol collision logic
03-05-30 conf.tab,conf.sh,astconf.c: add <sys/systeminfo.h> sysinfo() SI_*
03-05-29 ccode.h: rework for extensibility, drop obsolete mematoe(), memetoa()
03-05-28 regex/*: recode to use isw*() directly when needed, is*() otherwise
03-05-27 features/vmalloc: fix _std_malloc test
03-05-25 misc/optget.c: fix optstr() ???* internal options
03-05-24 misc/optget.c: fix (ancient) argv null dereference
03-05-23 comp/getcwd.c: don't intercept on _WINIX -- unreliable st_ino
03-05-22 sfio/sfsprintf.c: n<0 => don't append '\0'
03-05-18 misc/fts.c: re-stat FTS_DP to update nlink/times
  misc/fts.c: add FTSENT.stack to eliminate getlist() recursion
  regex/ucs_names.h: use "..." catenation to placate some cc's
03-05-11 string/strtoi.h: handle
 "-" "+" "0x" "11#"
03-05-09 vmalloc/vmbest.c: large memory allocation tweaks
03-05-06 misc/optget.c: fix getopt_long() prefix==1 bug that missed short flags
03-04-27 comp/system.c: handle <ast_map.h>
03-04-24 vmalloc/vmmopen.c: drop dup <unistd.h>
03-04-21 tm/tmdate.c: fix next hour/min logic
03-04-15 vmalloc/malloc.c: intercept __malloc() along with __libc_malloc()
  string/strdup.c: intercept __strdup() along with __libc_strdup()
  features/mmap: consolidate from features/(lib|sfio|vmalloc)
  add _NO_MMAP==1 to disable all mmap()/munmap() calls
  path/pathposix.c: add
03-04-14 comp/setlocale.c: fix debug_mbtowc() return value for *s==0 || n < 1
  comp/iconv.c: fix error return errno values
03-04-11 misc/stk.c: fix stkgrow() realloc bug
03-04-05 string/tok.c: support readonly single token input strings
  disc/sfdcdio.c: fix F_DIOINFO and FDIRECT #ifdef's
  include/ast_std.h: allow _LARGEFILE64_SOURCE on __hppa
  features/common: fix `tst _foo_' => `tst foo_' typo
  features/float: fix
 `tst _foo_' => `tst foo_' typo
  features/float: add FLTMAX_(UINTMAX_MAX,INTMAX_MAX,INTMAX_MIN)
  comp/omitted.c: fix pathconf => _pathconf => _ast_pathconf loop
03-04-03 features/float: add _ast_no_um2fm: no usinged intmax => floatmax cast
  vmalloc/vmbest.c: add getenv("VMCHECK") to initialize Vmcheck
03-03-28 include/ast_dir.h: add D_TYPE; { D_FILENO D_TYPE } must be #ifdef'd
  misc/fts.c|getcwd.c|glob.c,preroot/getpreroot.c: add D_FILENO #ifdef's
  Makefile: make sure _BLD_ast is defined for all compiles
03-03-27 ast_vfork.h: generate from features/vfork to pick up headers/pragmas
03-03-25 comp/omitted.c: drop free() of live environ
  path/pathshell.c: allow trailing .exe -- pox on that
  string/strtoi.h: fix bug leading 3 digits before thousands sep bug
  string/(fmt|str)[gu]id.c: we know root when we see it
03-03-24 misc/optget.c: handle : and ? in := default value
03-03-21 ast_std.h: drop all spawn*() but spawnveg()

obsolete/spawn.c: add for dropped spawn*()
features/lib:
_use_spawnveg if spawnveg() is a win over fork()/exec()
features/lib: drop NutForkExecve() and _map_spawnve
features/lib: fix memccpy test to clean up /tmp droppings
comp/spawnveg.c: call posix_spawn() if implemented
comp/omitted.c: add spawnve() intercept
comp/getoptl.c: set getopt_long() optind even if no options
tm/tmfmt.c: add %Q<delim>recent<delim>distant<delim>
misc/optget.c: fix trailing '*' for option and option args
sfio/sfmode.c: getenv("_AST_SFIO_OPTIONS") [,]SF_LINE[,] for fd {0,1,2}
vmalloc/*: kpv sync for uwin build independent of libast
03-03-18 port/astconf.c: switch to dynamic string values (saves 7K data/bss)
string/strmatch.c: switch to dynamic regex cache (saves 3K data/bss)
regex/regcoll.c,ucs_names.h: initialize rw tables from smaller ro data
features/lib: add vfork test for passing SIG_IGN across exec
features/lib: add spawn test for passing SIG_IGN across spawn
03-03-17 comp/omitted.c: unlink() renames to .deleted dir in case file open

sfio/sfpopen.c: handle mode "" for spawn with no pipe
features/float,comp/frexp.c,comp/frexpl.c: add pow2() table alternative
03-03-12 features/lib: fix linux.ia64 memccpy() tests -- now its their turn
features/vmalloc: fix /dev/zero test
features/align: _ast_intmax_t and _ast_fltmax_t join the union
misc/stk.c: fix struct frame size to align data
disc/sfdcdos.c: change sfslen() => sfvalue(f)
03-03-10 misc/optget.c: handle [f\f:x:lll\f?ddd]
03-03-07 port/astconf.c: uninitialized CONFORMANCE + POSIXLY_CORRECT => standard
03-03-05 comp/omitted.c: make sure at least /bin is in PATH to find cygwin dlls
03-03-02 path/pathshell.c: write access to /bin is effectively root
03-02-28 features/float: add (FLT|DBL|LDBL)_U?(LONG|LONGLONG|INTMAX)_(MIN|MAX)
03-02-25 features/lib: change vfork() test to use _exit() instead of exit()
03-02-23 include/error.h: update ERROR_VERSION for error_info.number space
03-02-22 comp/conf.sh: wrap ksh check in eval to avoid premature exit
03-02-21 misc/fts.c:
verify chdir(..) to avoid malicious dir rename()
03-02-19 string/strtoip4.c: isspace() instead of ' '||'\t'
03-02-17 regex/regcomp.c: fix stats.l REX_REP logic that botched REX_BM
03-02-13 string/base64.c: handle catenated encodings
03-02-11 features/libpath.sh: change LIBPATH to <dir>[:<env>[:<pat>]][,...]
03-02-07 path/pathfind.c: allow "/dev/null" to be PATH_REGULAR
03-02-06 include/ast.h,fmtquote.c: add FMT_ALWAYS|FMT_ESCAPED|FMT_SHELL|FMT_WIDE
03-02-05 tm/tmdate.c,tm/tmword.c,string/strelapsed.c: '_' treated like ' '
03-02-01 string/strelapsed.c: handle ps style [day-][hour:]min:sec
03-01-31 port/astlicense.c: fix author=* match
03-01-30 include/tm.h: add tmisleapyear() macro
03-01-29 comp/getopt.h,comp/getoptl.c: add gnu getopt_long(), getopt_long_only()
include/ast_getopt.h: for non-gnu part of comp/getopt.h

include/ast_std.h: include <ast_getopt.h> instead of <getopt.h>
03-01-28 ast.h,string/base64.c: add base64encode() and base64decode()
path/pathfind.c: verify S_ISREG()
03-01-24
path/pathexists.c: fix abs dir bug and deal with case ignorance
03-01-23 path/pathpath.c: honor PATH_ABSOLUTE for the easy case too
03-01-22 path/pathprobe.c: fix search to find both the probe script and command
03-01-17 misc/magic.tab: application/zip => appplication/(gzip|pzip|zip)
03-01-14 misc/optget.c: change href="" to href="."
03-01-10 include/ast_std.h: strtold() import hackery for static __CYGWIN__
03-01-03 include/regex.h,regex/regcomp.h: add REG_SHELL_GROUP
include/ast.h,string/strmatch.c: add STR_GROUP for REG_SHELL_GROUP
02-12-15 include/error.h: errorcontext => Error_context_s (compatible til 2004)
02-12-06 misc/sigdata.c: add NoF(sigdadata) -- why nmake was uninterruptable!
02-12-03 comp/omitted.c,features/omitted: handle cygwin alarm() return botch
02-11-27 misc/swapop.c: op=3,size=4 => op=7
string/strlcat.c,strlcpy.c: fix uwin decl clash
02-11-26 sfio/sfvprintf.c: fix sfsprintf() '\0' termination bug
02-11-22 misc/glob.c: move static struniq() to
libast extern
string/fmtversion.c,include/ast.h: add fmtversion
02-11-18 string/strncopy.c: add
misc/magic.tab: list size for magicid.h magic
02-11-14 sfio/sfvprintf.c: add %#c for C escapes
include/error.h: add ERROR_NOTIFY context flag for builtin commands
02-11-11 string/strtoi.h: add S2I_size for strnto*() size_t 2nd arg
sfio/sfstrtof.h: add S2I_size for strnto*() size_t 2nd arg
comp/putenv.c: add setenv() and unsetenv() wrappers for setenviron()
02-10-31 path/pathfind.c: add dir of including file to the pathinclude() list
misc/optesc.c: add
02-10-30 string/strtoip4.c: set next char pointer even on error
02-10-29 comp/resolvepath.c: add (size_t version of realpath())
misc/mime.c: fix mimehead() to ignore null content values
02-10-28 misc/glob.c: add GLOB_STARSTAR for /**/ and GLOB_NOTDIR optimization
02-10-27 string/struniq.c: add
02-10-23 features/common: fix off-by-one loop check
02-10-18 include/ast_std.h: avoid off_t,ftruncate,lseek,truncate redefinitions
02-10-17
misc/mime.c: handle type/* match, fix bogus header parse
02-10-04 sfio/sfstrtof.h: S2F_static <0:export =0:private >0:static
02-10-02 features/common: don't define _WIN32; define _WINIX => unix on windows
features/tty: finally stomp the bsd _POSIX_VDISABLE redefinition
misc/fastfind.c: add more specific findwrite() error messages
comp/omitted.c: fix cygwin utime() to update st_ctime
comp/strtol.c,strtoul.c: __CYGWIN__ static link workaround XXX
string/fmtls.c,fmttime.c: tmform() => tmfmt()
02-09-22 port/astconf.c: return values in fmtbuf() buffer instead of stack
port/mnt.c: don't set MNT_REMOTE for win32 ?:* paths

sfio/sfvscanf.c: _sfdscan() is library global (not static)
02-09-21 path/pathkey.c: add tool arg for mamake compatible hash
features/fcntl.c: handle iffe _hdr_lcl_* => _lcl_* change
02-09-15 comp/conf.sh: fix enum vs. macro test
cdt: kpv sync
02-09-11 ast.h,features/common: move _WIN32 macro init to features/common
features/common: enable __EXTERN__ and
__DEFINE__ for _WIN32&!_UWIN
features/float: add -lm to _ast_*_nan_init tests
vmalloc: kpv sync with vmresizef => vmgetmem
features/iconv: must have both <iconv.h> and iconv_open()!
features/vmalloc: alloca test must compile *and* link
sfio/sfvscanf.c,sfstrtof.h: add flag arg to char get, fix NaN loop
02-09-10 vmalloc/vmhdr.h: enable getpagesize() and sbrk() prototypes
features/fcntl.c: enable mmap64() prototype
include/ast_windows.h: windows.h wrapper with ast namespace workarounds
02-09-07 misc/mime.c: fix quoted value parse bug that ate the whole line
02-09-05 features/vmalloc: add free() to _std_malloc test
include/ast.h: NoF(x) now defines _DATA_x for !_BLD_DLL too
tm/tmlocale.c: { C POSIX en } == unix dadgummit
02-08-29 path/pathfind.c: initialize Dir_t.next=0
02-08-28 uwin/rint.c: update
features/libpath.sh: "bin" is now the default value
02-08-22 vmtrace.h: add for debugging
02-08-20 misc/magic.c: convert to use <cdt.h>
vmalloc/vmresizef.c: add for generic
discipline resizef default
string/strelapsed.c: allow long time component names
02-08-19 misc/optget.c: add `.fp 5 CW' to --nroff output
string/(fmtfs|fmtuid|fmtgid|strgid|struid).c: convert to use <cdt.h>
include/dt.h,cdt/dtnew.c: add for dtopen() in specific vm region
02-08-13 comp/omitted.c: fix bzero logic for e.g. unixware.i386
include/ast.h: add fmtbase->fmtbasell; swap in 2003-09-01
02-08-12 regex/regnexec.c: fix REG_MINIMAL REX_DOT mb bug
02-08-08 features/iconv: <ast_common.h> instead of <sys/types.h> <ast_common.h>
02-08-07 regex/regcomp.c: recognize anchors in BRE subexpressions
02-08-06 comp/iconv.c: handle win32 cpNNNN == windows-NNNN aliases
02-08-05 cdt/*: sync with kpv src
02-08-02 features/iconv: include sys/types.h for ast_types.h
02-08-01 misc/magic.c: magic file "." names the default
misc/magic.c: handle addr type (from irix string)
features/lib: move malloc tests to features/vmalloc
features/vmalloc: snarf tests from features/lib
vmalloc/*: sync with
kpv src
comp/libc.c: dropped -- __libc_* intercepts moved to vmalloc/malloc.c
02-07-30 features/lib: handle __libc_malloc() in _std_malloc test
vmalloc/malloc.c: add gnu pvalloc()

features/vmalloc: fix alloca check
02-07-29 features/limits.c: handle netbsd guards
02-07-27 sfio/sfpoll.c: handle rw pipes
02-07-25 features/iconv: include ast_types.h for size_t in ast_iconv.h
02-07-18 apply LARGEFILE64 header prototype clash patches
misc/optget.c: __EXTERN__ _opt_info_ instead of opt_info
02-07-17 ast_std.h: memzero() now defaults to memset() instead of bzero()
02-07-16 ast_std.h: add ast.env_serial
misc/setenviron.c: increment ast.env_serial
include/tm.h: tmset() now calls tminit() directly
tm/tminit.c: check ast.env_serial for env change
tm/tmfix.c: speed up for large values of tm_mday
02-07-15 comp/fnmatch.c: fix memory leak caused by missing regfree()
comp/strstr.c: fix broken interpretation and implementation
comp/iconv.c: intercept (but no-op) null to and from
buffer pointers
02-06-27 ast_std.h: map _sysconf => _ast_sysconf for sun
02-06-26 cdt,sfio,vmalloc: kpv sync -- is this ever easy?
02-06-24 sfio: kpv sync, vfwscanf(),fputw() fix (wcslen(x)*sizeof(wchar_t)!!)
misc/fts.c: fix symlink chdir() optimzation bug
02-06-11 sfio/sfwrite.c: string to file fix
Makefile: __OBSOLETE__==20020101
02-06-01 regex/regcomp.c: REG_DELIMITED now consumes the delimiter
02-05-31 regex/reglib.h,regcomp.c,regnexec.c: null subexpression fixes
02-05-24 misc/fts.c: disable dir link counts in 3d
misc/magic.c: fix "*(mkfile)" sh pattern to "*@(mkfile)"
02-05-20 regex.h,regex/regsubcomp.c,regex/regsubexec.c: add
regex/regsub.c: deprecate
02-05-16 tm/tmfix.c: fix '60+n min/sec ago' bug for n min/sec after the hour
02-05-14 regex/regsub.c: fix (^|x) null match early termination bug
02-05-13 dir/dirlib.h: drop errant extern==__EXPORT__
features/uwin: add uwin lib tests
uwin/*.c: check features/uwin for stubs
features/float: add nan representation generation

sfio/sftable.h: used _ast_*_nan_init for huge values
02-05-09 misc/fts.c: fix virtual top to force ``child'' stat()
features/common: define va_copy() only if not in <stdarg.h>
02-05-01 string/strtoip4.c: cisco inverted quad mask must have 4 parts
02-04-30 misc/magic.tab: fix pzip version check
02-04-19 string/strtoip4.c: handle cisco inverted quad mask n.n.n.n/i.i.i.i
02-04-18 misc/fts.c: add chdir() verification stat() optimizations
path/pathkey.c: check PROBE_ATTRIBUTES for list of vars
02-04-12 port/astlicense.c: type=open tweak, fix author list spacing
02-04-11 regex/regcomp.c: check for pattern number overflow
02-04-05 tm/tmfmt.c: add %u
02-04-04 sfkeyprintf.c: fix %c numeric value
path/pathpath.c: check plain path first -- duh

02-04-03 misc/fts.c: fix (FTS_PHYSICAL|FTS_NOSTAT) stat optimizations
ftwalk.c: only clear FTW_DELAY if FTW_CHILDREN
ftwalk.h: add FTW_NSOK for FTW_DELAY
02-03-29 ast.h: drop strerror() prototype -- already in <ast_std.h>
features/stdio: check
for _SFIO_H redundant _Sfstd* declarations
02-03-26 misc/glob.c: fix GLOB_LIST gl_flags values
02-03-24 port/mnt.c: update bsd fstype name and mount option logic
02-03-23 Makefile: add ast_wchar.h to the .check.hdr list (for mamake)
02-03-17 features/stdio: hack around g++ 3.* clashes
Makefile: add ast_nl_types.h to the .check.hdr list (for mamake)
string/strtoip4.c: fix validity check bug that only checked last part
02-03-14 misc/optget.c: fix --keys to not expand inline \f...\f
02-03-12 port/astlicense.c: add type=free
path/pathaccess.c: sibling ".." search ignores relative dirs
sfio/sfvscanf.c: sfstrtof get() must return 0 on eof
02-03-11 path/pathexists.c: check path by pairs checking {ENOTDIR,ENOENT}
02-02-14 features/float: copy local min/max macros to avoid printf roundoff
features/wchar: include <ast_common.h>, not <ast_std.h>
misc/magic.c: match[]=>matches[] to fix K&R match() macro conflict
include/vmalloc.h: include <stdlib.h> for !_PACKAGE_ast
uwin/mini.sym:
add sprintf (now required by features/common)
regex/regnexec.c: truncate wide chars for <ctype.h> functions
Makefile: fix MAM ast_common.h sequencing bug by making it first
cdt/dthash.c: fix DT_DELETE memory leak (DT_DETACH typo)
cdt/dthash.c: fix DT_DELETE double free (dt->data->here typo)
regex/regcomp.c: fix recomb() to reject RE with backref
features/iffeio: explicitly generate stdio.lcl
stdio: add {fcloseall,f(get|put)s_unlocked,fmemopen,getdelim,getline}
tmmake,tmtime: allow negative time_t if native localtime/gmtime do
tmdate: allow years before 1969
fmtfmt: add
include/ast.h: add { PATH_TOUCH_CREATE PATH_TOUCH_VERBATIM }
Makefile: add std/*.h for std header iffe overrides
comp/iconv.c: fix non-C win32 sfreserve() loop
02-02-11 features/common: separate long long / long double tests
features/common: verify printf handles long long / long double
02-02-02 include/ast_std.h,sfio/sfhdr.h: drop _hdr_locale tests -- always on now
include/ast_std.h:
trust _UWIN <unistd.h>
02-01-31 port/mnt.c: add aix options field
02-01-30 comp/strstr.c: add for ancient s5
stdio/_flsbuf.c: only on systems that transfer to native (e.g., uwin)
string/strtoi.h: cat min/max error return values
02-01-28 features/tty: add cf[gs]et[io]speed macros for <termio.h>
comp/rename.c: punt to (ancient) /usr/lib/mv_dir on EISDIR
02-01-24 sigcrit.c: fix SIGCLD!=SIGCHLD interrupt loop

sfvprintf.c: convert fast io macros to functions for uts.390 cc
string/strtoi.h: drop #pragma prototyped for standalone sfio
sfdcsubstr.c: rename from sfdcsubstream.c for 14 char fs
02-01-22 execlp,execvp,execvpe,spawnlp,spawnvp,spawnvpe: fix __EXPORT__
spawnlp,spawnve,spawnvp,spawnvpe: handle ms mode arg -- barf
sftable.c: ifdef hacks for _WIN32&_ALPHA_ fp exception
_stdfun.c: add _UWIN&_ALPHA_ iob map
02-01-18 sfio/sfstrtof.h: drop #pragma prototyped for standalone sfio
02-01-17 features/hdr: don't include <stddef.h> after it doesn't check out!
02-01-16 misc/magic.c:
add version type for YYYYMMDD or [a.][b.]c.d
misc/magic.c: recode mime %s parse -- sensible and no buffer overflow
02-01-15 misc/magic.tab,magicid.h: add generic binary magic number and header
02-01-12 tm/tmlocale.c: override win32 default date for {C,POSIX,en} locales
comp/omitted.c: fix cygwin workaround logic bugs
02-01-09 stdio/fseeko.c,ftello.c: add from UNIX98
02-01-08 comp/conf.sh: use $cc instead of cc
02-01-07 string/strlcat.c,string/strlcpy.c: add bsd api
01-12-18 comp/conf.tab: fix LFS_CFLAGS default for sun _CS_LFS_CFLAGS botch
features/common: add hdr stdarg test
tm/tmdate.c: handle YYYY/MM/DD
01-12-10 misc/magic.tab: add generic 0x00010203 binary magic
01-12-03 path/pathprobe.c: return HOME relative path if readonly/non-suid fs
01-11-30 misc/optget.c: add simple cache for repeat offenders (like ksh read)
sfio/sfhdr.h: preserve errno across SFMMSEQON-SFMMSEQOFF
01-11-29 magic.tab: fix GIF version number listing
01-11-28 string/fmtbase.c: p!=0 => base always included
in output
01-11-26 misc/fts.c: empty path is an error
01-11-14 misc/optget.c: fix --?+SECTION queries to include paragraphs
01-11-20 regex/regnexec.c: fix REG_MINIMAL character class match bug
01-11-19 features/lib: retain _lib_confstr for all solaris releases
01-11-16 comp/setlocale.c: fix !_lib_setlocale typo
01-10-31 regex/ucs_names.h: add string catenation to keep line length low
misc/fastfind.c: handle gnu slocate db read
misc/optget.c: add --?+SECTION queries
comp/fnmatch.h: add FNM_NOSYS
01-10-30 tm/tmdate.c: fix cron specs when both wday and mday are specified
01-10-20 misc/glob.c: fix bug that called \ trim() twice on same path
misc/glob.c: fix \ trim() bug that restored / to wrong position
string/fmtre.c: fix { ^ . $ } translations
misc/optget.c: use original string if translation fails -- duh
sfio/sfhdr.h: assume <errno.h> assigns proper atttibutes to errno
comp/regcmp.c: __ia64 workaround fixed by proper CC.DLL probe
comp/getdate.c: __ia64 workaround
fixed by proper CC.DLL probe
features/lib: add lib getdate
01-10-18 features/lib: check for strtod static link collision

features/float: add another signed cast for old bsd cc
features/wchar: add <stdlib.h> <stdio.h> before <wchar.h> for old bsd
01-10-17 sfio/sfcvt.c: limit max precision to { FLT_DIG DBL_DIG LDBL_DIG }
sfio/sfcvt.c: fix %[aA] format to always have leading 0[xX]1.
sfio/sfvprintf.c: handle %C %lc %S %ls for wchar_t args
sfio/sfvscanf.c: handle %C %lc %S %ls for wchar_t args
string/fmtmode.c: fix bug that omitted trailing '\0'
01-10-12 misc/optget.c: . => \&. for --??nroff
comp/wc.c: fix mbstate_t initialization typo
features/float: fix max integer / float loop termiation
features/float: fix LDBL_UINTMAX_MAX typo that did DBL_UINTMAX_MAX
01-10-11 include/sfio.h: fix _Sfstd* import/export
features/common: fix _UWIN __DYNAMIC__() definition
01-10-06 features/fcntl.c: { O_BINARY O_TEXT } default to 0
features/omitted: add for comp/omitted.c
sfio/sfopen.c:
O_BINARY default for _WIN32&&!_UWIN
01-10-05 misc/glob.c: fix `\(x/*' GLOB_NOMATCH bug that returned `(x'
misc/optget.c: fix localization lookup that didn't drop doubled : ?]
01-10-04 comp/setlocale.c: handle sizeof(wchar_t)!=4 in debug locale
comp/conf.sh: handle sytems where _SC_* is both an enum and a macro
01-09-25 astconf: add LIBPREFIX
01-09-20 features/common: add __DYNAMIC__() for dll externs
01-09-19 cdt: kpv update
mb*() macros: update for ksh conversion, extend debug locale
01-09-16 tm/tmlocale.c: add compiled in defaults for C locale
misc/glob.c: add gl_nextdir callback for GLOB_COMPLETE
01-08-14 clarify _WIN32 vs. _UWIN vs. __CYGWIN__
tminit: fix standard & daylight initialization
01-09-11 pathnative.c: add for native fs representation
regex.h: fix regerror_t prototype
01-09-04 regex/regnexec.c: fix REG_ICASE for multi-char collating elements
tm/tmlocale.c: fix old ascii LC_TIME load
locale*: add new LC_* categories
comp/omitted.c: add CYGWIN workarounds

features/lib: add CYGWIN workarounds
01-08-11 features/common: some compilers have long long but no LL constants!
features/lib: add mmap64 implementation test (for linux.s390)
regex/regcomp.c: fix \ in [...] parse
setlocale: retain user locale spelling in setlocale() return value
features/limits.c: don't include ./limits.h -- duh
fmtesc: don't escape multibyte chars
tm/tmlocale.c: fix native C locale default
01-08-08 features/float: some compilers (msdev) forget long long vs. double
01-07-31 misc/optget.c: handle suboptions
01-07-27 cdt.h: add DTDISC()
01-07-17 iffeio.h: move to include for stdio bootstrap iffe workarounds

01-06-25 regex: perl extensions added and tested
01-06-21 misc/error: add ERROR_OPTIONS=prefix=string for message processing
01-06-15 string/chresc: only 2 hex digits max for \xxx
 regex/regsub: handle REG_SHELL ~(nnn) rhs backrefs
01-06-11 regex: handle embedded \0 in pattern and subject string
 regex: add (?nnn) for backrefs > 9
 comp/fnmatch:
add FNM_LEADING_DIR for gnu compatibility
 features/float: _ast_flt_unsigned_max_t for bsd.i386 omission
01-06-06 misc/optget.c: add o option for old ps,ar,tar with optional leading -
 regex/regcomp.c: REG_LENIENT|REG_DELIMITED \<newline> => <newline>
 regex/regcomp.c: REG_LENIENT \000 => NUL
01-06-04 features/dirent: replace Makefile hack with iffe semi-hack
 regex/regnexec.c: negation must also check REG_SHELL_DOT
01-06-03 sprintf.c: change buf size from SF_BUFSIZE to INT_MAX
01-05-31 glob: fix gl_fignore to ignore leading . by default
 features/lib: add botch_d_ino_dirent64 for linux botch
01-05-25 port/lc.tab: add a few missing language_territory's
01-05-23 string/chresc: \C[.collation-element.]
 fmtmatch,fmtre: update for <regex.h> syntax extensions
01-05-21 regex: add perl extensions, unicode names for collation elements
01-05-11 string/chresc: \e == \E == escape, \cX == control X, \x{..} == \x..
01-05-09 path/pathtemp.c: pathtemp(0,0,0,"/private",0) for mode S_IRUSR|S_IWUSR

 port/touch.c: handle utime(2) EPERM to fix bug that truncated
 regex: change REG_MINIMAL to avoid negation -- much faster now
01-05-08 *.h: add some off_t macro guards for suse linux
01-05-03 regcomp.c: optimize ((x)!)* to ((x)!)
 wchar: add <wchar.h> and stdio wchar routines
01-05-02 feaures/wchar: add <wchar.h> intercept, add stdio wchar functions
01-05-01 string/strtoi.h: signed strtoi accepts qualified unsigned constants
01-04-30 comp/setlocale.c: fix code that relied on 2 simultaneous getenv()'s
 tm/tmlocale.c: check for UTF-8 encoded LC_TIME files
 misc/magic.tab: add utf-8 and utf-16 U+FEFF magic
01-04-26 features/common: some cc's have _ast_int8_t but not LL constants
01-04-24 features/lib: add _std_strtod for mac os X
01-04-23 ccode: add CC_sub for ms embedded EOF char on ebcdic -- no joke
01-04-20 iconv: handle ebcdic<=>utf
 mc.h,mc.c: add mcindex()
 ast_std.h: add AST_MESSAGE_SET
01-04-18 features/libpath.sh: fix mvs probe
 *: sundry mvs fixes
 glob: fix GLOB_NOCHECK
to avoid stat() and properly trim patterns
01-04-01 strtod,strtold: add
 strtol,strtoul,strtoll,strtoull,strton,strtonl: handle locale & ERANGE
 sfvprintf,sfvscanf: handle locale decimal_point,thousands_sep
 sfvprintf,sfvscanf: handle %a,%A

setlocale: add LC_NUMERIC decimal_point,thousands_sep init
ast_std.h: __OPTIMIZE_SIZE__==1 to disable non-std __GNUC__ inlines
pathexists: path cache to cut down pathpath() access(2) calls
features/stdio: __FILE_TAG == _sfio_s for solaris
01-03-23 iconv: fix iconv_move buffer boundary bug that stopped at 1 block
01-03-19 glob: add GLOB_AUGMENTED
regex: REG_SHELL syntax error implies REG_LITERAL match
strto[ln][ll]: add overflow checks
01-03-17 locale: reimplemented to provide canonical locale namespace
locale: add LC_ALL=local for local system user default
tm.h: TM_*_3 => TM_*_ABBREV
tmfmt: handle standard E and O format modifiers
tmlocale: consult nl_langinfo() if defined
fmtquote("\"",1) => shell quote
01-03-08
regex: handle multibyte chars and collation classes
strmatch,strgrpmatch: now a wrapper on regex
ast_std.h: add mb*() multibyte and collation support
sfvscanf: handle locale decimal and thousand
proc*,system: handle ignored SIGCHLD
sfkeyprintf: handle %*C
01-03-06 locale: add locale data cache for efficient multiple locale switching
optget: fix LC_MESSAGES!=C --man bug
01-03-01 Makefile: HEADEROPT is not optional for win32.*
comp/syslog.h: comply with the de factos
optget(): fix \f...\f stack bug that referenced data after pop
01-02-27 *locale*: a batch of fixes for native LC_MESSAGE&LC_TIME hooks
01-02-22 pathprobe: reprobe test now checks probe.ini too
sfio_s.h: advertize public Sfio_t members with _ prefix
sfio.h,features/stdio: add <sfio_s.h> reference
sfhdr.h: map <sfio_s.h> _foo to foo
sfio.h: SF_APPEND=>SF_APPENDWR, SF_CLOSE=>SF_CLOSING
01-02-14 comp/conf.sh: probe <unistd.h> for _(CS|PC|SC)_* getconf symbols
stdio/*: update for uwin stdio.dll binary compatibility

sfread: finally fixed premature pipe read EOF bug
fmtscale: format tenths for number > 0 && number < 10
01-02-09 _sfmode(),_sftype(),_Sfextern: UWIN binary stdio compatibility exports
01-02-08 sfgetm,sfputm,_sfputm: fix max clash with k&r max() macro
setlocale: undef valid for sun4 k&r valid() macro
01-02-07 catopen.c: don't do native catopen for the debug locale
01-02-06 sfraise.c: add SF_FINAL check to avoid (posibly) freed disciplines
01-01-01 features/common: fix uwin __DEFINE__
sftable: initialize decimal and thousand
magic.tab: add corel wordperfect document
syslog: add LOG_LEVEL, add '\n' only if needed
include/tm.h: #undef daylight for _WIN32
sfio.h: add _SF_APPEND and _SF_CLOSE for native namespace incursion

ast_std.h: add AST_LC_multibyte for MB_CUR_MAX>1
setlocale: set AST_LC_multibyte
strmatch: check AST_LC_multibyte
features/limits.c: add _BITS_POSIX1_LIM_H guard for linux
features/libpath.sh: fix for aix LIBPATH
procopen,procclose:
block SIGCHLD if PROC_FOREGROUND (e.g., system(3))
optget.c: add enumerated option argument values
optget.c: add <!--INTERNAL--> for private --html
optget.c: fix memory leak that hit shell builtins hard
sfio: drop sfread small chunk logic
00-12-25 mnt.c: handle " and ' quoting for fstab
sftmp.c: let pathtemp() open the fd O_EXCL
00-12-15 conf.sh: add -v for verbose trace
features/(limits|unistd).c: no FEATURE/types because of _POSIX_SOURCE
features/time: add default for CLOCKS_PER_SEC
features/lib: std_malloc now handles NeXT
00-12-13 strton: recognize qualifier only if preceded by a digit
features/lib: change return in vfork() test to exit() for linux sparc
fmtquote: fix $'...' quote logic
00-12-11 tmdate: fix cron format bug that mishandled months
00-12-01 optget: handle $Id: ... $ in --?-version
features/fcntl.c: fix _STDPP_ mmap munmap
00-11-27 magic: drop dup sfclose() in load()
optget: handle error_info.id==0
00-11-22 features/stdio: add _FILEDEFED for sol9.sun4

strton,stronll: handle [u|U][l|L][ll|LL] qualifiers
00-10-31 tmdate: add TM_DATESTYLE and mmddHHMM[cc]yy
astlicense.c: #include <hashkey.h> MAM workaround
astlicense.c: check for non-empty CONTRIBUTORS
00-10-26 features/stdio: add _FILE and __FILE for gnu
misc/stk.c: fix stack pointer check off-by-one (dgk does it too!)
00-10-23 syslog.h: sync with bsd values
00-10-18 _STUB_* now functions instead of common symbols
all extern data declared with definition to eliminate common symbols
fastfind: add mac/bsd /var/db/locate.database
00-10-17 features/lib: add apple osX (darwin.ppc) workarounds
00-10-12 add: fmtbuf(), fmtclock(), fmtip4(), strtoip4()
fmt*() now use fmtbuf() for tmp fmt buf allocation
00-10-05 regex: add REG_DISCIPLINE and regdisc_t for alloc/error disc
00-09-29 features/lib: pipe_rw==0 for sgi: boot rw == bin incompatibility
00-09-21 astlicense: handle \' and \" in license values
00-09-20 sfwrite: fix write() error in sfprintf() loop
00-08-11 hdr,vmhdr.h:
check/hide { getpagesize sbrk } prototypes
astlicense: add noncommercial
00-07-31 fflush: don't seek on pipes

sfresize: add
setlocale: fix bad newof() call
00-06-01 strmatch: initialize match.current.beg[0] to avoid dump at line 670
sfio/stdio: a few more errno tweaks
astquery: sfstdin/sfstderr by default
00-05-26 sfmode: errno=EBADF for invalid stream use
00-05-22 rewind: fix for xopen test
00-05-18 mcfind: returns absolute path
00-05-16 optget: --keys must catch \f...\f too
translate,mc: errno cleanup
00-05-09 magic: add netbsd binary magic
fts: PATH_RESOLVE!=logical => FTS_SEEDOTDIR
ftwflags: call fts_flags()
astconf: astconf(0,0,0) re-syncs with _AST_FEATURES
00-05-08 optget: --usage & --keys for last -catalog group only
00-05-02 iconv.c: add; use codes[] in ccmapid() and ccmapname(); "" for native
00-05-01 pathtmp: copy env values (libshell or putenv may change)
00-04-01 optget: drop bar from [-foo?bar] for --??keys
sfvscanf: add %X -- duh
features/common:
fix va_listval() for power pc
findopen: fix FIND_GENERATE codes file search
magic: add ERROR_translate() and msgcat.key
tmlocale: add for LC_TIME locale info
tmlex: check tm_info.format and tm_data.format
tmfix: fix for tm_wday special case (via nl_langinfo on LC_TIME fields)
strftime: fix for nl_langinfo special case
ast_std.h: provide LC_* defauls if not defined
sfnew: check ${_AST_sfio_bufsize} -- don't tell kpv
catopen,nl_types.h: add intercept to mc* routines
magic.tab: add ast message catalog
strerror: add _ast_strerror intercept with ERROR_translate("errno")
fmtquote: escapes >0177 only if (flags&2)
00-03-17 feof: stdio macro functions only for _UWIN
optget: proper ERROR_translate() calls
astgetconf: add for thread safe error message control
astlicense: fix type=special but with non-null notice
errorx: add for ERROR_translate() support
ERROR_translate: add locale id args for alternate dictionary
option.h: move _OPT_PRIVATE_ to pointer to avoid
dll size mismatch
ftwalk: fix FTW_CHILDREN bug that hit top level non-dirs twice
translate.c: default error_info.translate
astconf: fix dup loop thrash that never returns, add _AST_VERSION
00-03-10 ast_std.h: do _LARGEFILE_SOURCE initialization before std headers
fmtquote: handle $'...' quotes
00-03-07 optget: fix numeric option support test
sfkeyprintf: add %q for '...' quoting with ansi escapes

00-03-06 features/stdio: fix _sfflsbuf prototype (dingold@gte.net)
00-02-14 pathtmp: fix pid cache bug that sometimes repeated after ~10 attempts
  optget: "..." attribute quote
  pathfind: eliminate *: prefix in lib, not type
  proc: PROC_FOREGROUND for system(3) semantics (wait status return)
  pathtmp: fix mktemp() logic
  fts: fix FTS_NOSEEDOTDIR bug that botched ./* in top list
  include/ast/prototyped.h includes include/prototyped.h
  pathpath: fix strdup(0) bug
  optget: --html <foo@bar> => ...mailto:foo@bar...
  sscanf: fix sfsscanf => sfvsscanf typo
  magic.tab: strengthen
 tar recognition
00-02-08 conf.sh: fix ifdef for systems that think sysconf(FOO) is const
00-02-04 glob: fix globlist_t.gl_flags
00-02-02 vm*: add NoF() for data only files
00-01-27 fts: fix top level .==.. statp bug (thanks to dr. ek)
00-01-25 conf.tab: fix LFS*_*LAGS typo
00-01-24 astlicense: handle type=verbose, license.notice, author=*
00-01-11 pathprobe: generate info for first probe script on PATH - duh
  ast.h: add NoF(x) for files that define no functions
  tmpfile: fix implementation
  global change for string ERROR_translate() dictionary names
  optget: fix new way but no long names off by one
  optget: handle [--dictionary?name]
99-11-19 comp/conf.sh: `expr length XXX` is not universal
  drop sfstdio; stdio via functions everywhere
  drop Makefile conditionals (and follow our own advice for once)
  sfio: new stream after atexit() bug fix
  tm: Tm_zone_t.daylight=0 for standard time within zone
  stdio: fopen => _ast_fopen: only way short of binary compatibility
  Makefile: atmain.C
 falls back to atmain.c
  optget: add --keys, s<section> option
  stdio: _UWIN check for foreign stdio
99-11-11 astlicense: add
99-10-31 glob: fix regexec pattern; add PATH_ATTRIBUTES case check
  pathpath: path==0 means malloc space
99-10-22 tmfmt: %C=2-digit-century, %k=date(1), %y=2-digit-year-in-century
99-10-18 fastfind: expanded default db lookup
99-08-11 magic: fix off by one registry malloc
  features/fs: add __RENAME checks for stat familiy (netbsd)
  features/fs: major()/minor() fixes for s5
  features/libpath.sh: netbsd fix -- ld.so not in std places
  misc/fastfind: fix codes path generation bug
  optget: beef up --?* description, fix <TR>...</TR> nesting
  pathprobe: check for override (writable key file) first
  features/time: int tmtimeofday(struct timeval*);

optget: fix opt_info.num, even if opt_info.arg!=0
fts: FTS_PHYSICAL => FTS_SEEDOTDIR, add FTS_CHOP
fastfind: init dir tab with logical and physical name
glob: add gnu GLOB_ALTDIRFUNC
99-07-17 sfio: kpv
update and sfhdr.h sync!
99-06-24 stdio: fix fflush() to ignore sfseek(0) return value
99-06-23 magic: '\r' is text not control to placate m$
99-06-08 stdio: fix fseek,ftell semantics
uwin stdio: fflush() => _doflsh() to avoid __cplusplus clash
getopt: call liberror() to avoid error() conflict
tmfmt,tmscan: %N zone type (nation code), %z zone minutes west offset
tmfmt: - no pad _ space pad 0 leading 0 pad
99-05-28 magic: fix 'x' == '*' for any number, magic.tab tweaks
features/lib: verify that stat64 really works
99-05-21 tm*: add TM_WINDOW==69 for consistent century windowing guard year
99-05-18 tmtime: add century leap year calc anticipating unsigned time_t
99-05-17 sfkeyprintf: handle %o and %x!!
99-05-09 pathprobe: $HOME/.probe if not suid and st_uid!=geteuid()
99-04-28 magic,magic.tab: add registry()
99-04-24 regcomp: fix ksh pattern +! parse
regfatalpat: add
optget: make : ?] double escape consistent in all contexts
99-04-01 features: drop iffeio.h and stdio.h when
only printf() used
regex: fix stats() .l and .k count
fmtquote: added; most general fmtesc() form
99-03-22 fmtesc.c,ast.h: add fmtnesq()
optget: --?x works for -x option flag
99-03-17 features/limits.c: workaround solaris __EXTENSIONS__ _timespec bug
workaround limits.h circular prereq with ignore stdio.h
sfvprintf: %04e left-pad zero fixed
99-03-03 fts: uncle already: add FTS_SEEDOTDIR to retain leading ./
regex: REG_MULTIPLE, BM for fixed string alternation
optget: embedded `-' optional in long options, prefix={0,1,2}
99-02-14 fastfind: fix dir format bug that emitted wrong paths
astconf: fix redef off by one bug
99-02-11 pathcanon(): don't cache astconf("PATH_LEADING_SLASHES", NiL, NiL)
99-01-23 optget: move <old_opt.h> back into <option.h>, no open-close
optget: add "[index:long-name:description]" for --long-name
comp/gross: add weak __libc_attr for irix < 6.5 compatibility
features/limits.c: tweak the guards again
99-01-11 fastfind: handle old format count
byte order
magic.tab: fix elf to use real phdr offset
magic.c,magic.tab: fix | to act like switch/case
comp/fross.c,features/hack: for gross hacks
features/stdio: avoid sfio namespace pollution

98-12-25 tmdate: yyyy.mm.dd
  pathprobe: fix procrun() cmd path bug
  fmtesq: add
  features/common: win32.alpha va_list
  magic: add pc alpha object
98-11-11 strmatch: add STR_ICASE
  pathprobe: punt to $HOME/.probe/<key+HOSTTYPE> if not S_ISUID
  tmzone,tmdate: handle +-minutes, nn/MMM/yyyy
  stropt: fix nested quote pop
  tmfmt: add %K => %Y-%m-%d/%H:%M:%S
  sfio/stdio: fix fseek() SF_PUBLIC omissions
  fmtesc: catch '\\' (duh)
  vmalloc: vmbest round bug fix
98-11-01 fts.c: no pathcanon() if (fts_flags & FTS_PHYSICAL)
98-10-01 features/stdio prototype fixes
  optget: strton() instead of strtol() for #
98-09-22 regcomp: add REG_DELIMITED and REG_ESCAPE delimited re support
98-09-15 fix _LARGEFILE64_SOURCE stuff
  ast_std.h: provide mmap() prototype
98-08-11 fix sfpopen() to ignore SIGPIPE
 by ignoresig() for sfio but not stdio
  fix procopen() to ignore SIGPIPE by ignoresig() for PROC_IGNORE
  sfio sfpopen/popen update
  magic.src: fix ustar entry
98-07-17 fix ftwalk() short by one malloc()
  add fts_notify()
98-06-25 sfdcmore,sfdcprefix: add
98-06-19 tokscan: add %f %g
98-06-01 disc/sf*.c: memset(0) after disc malloc()
98-05-11 strelapsed: y==Y
  fts: pathcanon() top list
98-04-01 error: error_info.time for all msgs, just after cmd id
  error: no sfsync(sfstdin)
  sfio: sfpool, Sffmt_t update
  magic.tab: sgi core dumps -- why aren't these elf?
  stropt: (v+n) for unknown option is option value if n!=0
  procopen: fix setsid() for spawnveg() only
98-03-19 malloc: add realloc foreign region check
  sfdisc.h: rename to match kpv disciplines
  fastfind: fix strcasecmp/strcmp directory prefix mixup
98-03-17 features/fcntl.c,pathtmp,sftmp: add O_TEMPORARY
98-03-01 pathcanon: fix PATH_LEADING_SLASHES to stat() both slashes
  pathcanon: add PATH_VERIFIED
  tmdate: add skip[]
 to expand separator char set
  fastfind: FIND_OLD for old 7 bit db, FIND_TYPE for new 8 bit typed db
  fastfind: default generates gnu LOCATE02 8 bit db
  magic: handle %s in mime description

cdt: kpv update
sfio: kpv update
stdio: fpos64_t fseek64(), ftell64(), fgetpos64(), fsetpos64()
stdio: fseek() => sfseek(SF_PUBLIC) to avoid locking
fts: initialize parent stat[bp] from top level *after* statf done
astmath: add -lm requirement test
*: Astlong_t => _ast_*_t
regex: simplify regcollate() (from doug)
tmtime: preserve Tm_t*tm when calling tminit()
astconf: add readonly PATH_ATTRIBUTES=[cirw]
98-02-14 fastfind: add FIND_ICASE to ignore case
tmdate,tmgoff: handle (+|-)hh[[:]mm[[:]ss]] absolute timezone
tmdate: `<n> <part>' now assumes `next <n> <part>' instead of `this'
tmfix: fix leap year bug that forgot to add 1900
proc: add PROC_ZOMBIE
98-02-06 strmatch() char class range bug fix
regex char class range bug fix
98-01-23 _WIN32: changed the #if logic
again to accomodate _GNUC_
mnt: grab the mount options too
ast_std.h: hide getopt,getsubopt from stdlib.h
features/limits.c: add gnu guard macros to avoid limits.h recursion
features/mode.c: include "limits.h" instead of "FEATURE/limits.lcl"
98-01-11 sfio.h: use Astlong_t, move Sfio_t Sfdisc_t typedef to top for stdio.h
sfhdr.h: #undef SETLOCAL for hpux
sfvprintf,sfvscanf: %I*x for sizeof(int_arg)
handle ftruncate64 and truncate64
dtopen.c: __hppa dll needs Dtset Dtlist Dttree refs here
97-12-18 fmtnum: add
97-12-11 magic: handle sgi 64 bit core dumps
97-12-07 pathtmp: add override for TMPPATH,TMPDIR and cycling
97-11-11 tm: handle 0 return from gmtime(),localtime() (dos negative time_t)
features/stdio: fix fflush() macro to do physical sync
97-10-31 astconf PATH_RESOLVE is logical if 3d&&!std, metaphysical otherwise
magic: fix #! mime bug
tm: tmtime() now calls tmfix() and adjusts tm_isdst too=>mtime() works
97-10-11 dllfind,dlfcn: move to separate -ldll so -last
can link static, duh
Makefile,state.c: move forced header generation state.c => Makefile
sfio: update including SF_WHOLE
97-10-01 sfdostext: add \r\n => \n sfio discipline
stropt: NiL table => p=name for all name=value
97-08-11 pathtmp: check pid to note forks
procopen: FD_CLOEXEC rfd && wfd
fts: fts_close() after fts_children() with no fts_read() now works
97-07-17 error: sfsync(sfstdin,sfstdout,sfstderr) instead of sfsync(NiL)
_sfcvinit: add sfio internal interface to base conversion tables
strton: use _Sfcv* base conversion tables instead of sfsscanf()

sfvscanf: use _Sfcv* base conversion tables
mime: x- permutations now matched if exact fails
mime: original- stripped from content-* headers
tmdate: add yyyy-jjj, yyyy-mm-dd
dllfind: add
ccmapid: fix buf copy loop limit
ccmapname,ccmapcpy: add
sfstrtmp: add
97-05-09 streval: fix up casts for pseudo-ansi cc
features/types: use _ast_int_8 vars to verify support
string/modedata: check for mvs.390 S_IFMT

include/ast(_std).h: add #define __FILE_typedef
magic: add ccode text check
include/ftwalk.h: FTW_PATH=>FTS_NOCHDIR to avoid FTS_AGAIN (duh)
fts: clear status for FTS_AGAIN (fixes rm -r bug)
mnt: add mvs openedition w_getmntent()
sfhdr: _hdr_float && <float.h> for correct MAXDOUBLE
vmalloc/vmbest: if _std_malloc then use malloc()/free() not sbrk()
remove: check _std_remove
procopen: handle pio[{0,1}]=={0,1}
setenviron,features/uinstd: test for mvs.390 dll environ hacks
96-12-25 <sfio_p.h> -> <ast_common.h>
__EXTERN__(type,object)
__DEFINE__(type,object,value)
magic: check strings in !CC_NATIVE code set too
system: cmd==0 means check for shell access (xopen)
sfhdr.h: fix sfrsrv prototype
add __libc_malloc etc for gnu/linux
astconf(NiL,path,name) == astconf(name,path,NiL) + no liberror
fts_open: if toplist() stat fails return 0
ftwalk: handle fts_open()==0 via one phony userf() call
sfmode: S_ISFIFO default is SF_SHARE=0
features/lib: _WIN32 _lib_vfork=1
by default
unsigned<0 comparison and other fixes via sgi.mips4 cc
stk.c: use <align.h> ALIGN_BOUND for stkalloc()
features/lib,vfork: uwin fix
ast_std.h: fix strto[u]ll prototypes with features/types _ast_int_8
getsubopt: add for xopen 4.2 compatibility
drop function __IMPORT__
magic: more magic
change #define FILE from Sfio_t to struct _sfio_s
state.c: add generated includes that may be hit by std for MAM
bytesex: forgot about sizeof(long)=>7; could we fix the name too?
vmalloc.h: fix vmnewof() definition
sfio.h,stdio.h,ast_common.h: pollution cleanup
magic.c: add | op for switch

Makefile: stdio.h was on both HEADERSRC and HEADERGEN -- don't do that
drop pp:notice to get <sfio.h> ... <ast.h> to work
regex: add [[:<:]]==\< and [[:>:]]==\> for bsd compat
mime.c: ignore X-* headers while scanning for Content-*
magic.c: check for negative indirect offsets
magic.tab: fix dos entry that generated negative indirect offsets
vmalloc.h: add vmstrdup()
prototype
hash.h: add hashgetbucket() macro
magic.c: MAGIFILE is now a : file list
mnt.c: another 4.4 bsd fix -- users must include <sys/crap.h>
common: fix _WIN32 chicken&egg with va_copy
sfio: forgot to set f->val along with _Sfi in sfexcept()
Makefile: add mini target for uwin libmini.a
sfcvt.c: workaround for flaky long double optimizers
features/common: fix to work with va_list==void*
regexec.c: fix REG_STARTEND subexpression offsets
strmatch.c: don't forget <wctype.h>
regrexec.c: fix REG_INVERT end boundary bug that missed last record
astconf.c: notify(0,0,"a=b") called for each setenviron("a=b")
pathcanon.c: check astconf(PATH_LEADING_SLASHES) to preserve //*
96-11-28 _LARGEFILE64_SOURCE by default if possible: NOTE: assumes xopen
regerror: fix for xopen
getopt: fix for xopen
magic: add ciao virtual database
astconf: posix/strict/xopen implies "standard" conformance
fs3d.h: hide mount prototype
ast_std.h,mnt.c,features/fs: ncr port
tweaks
96-10-31 version 5.0
add strtoll() strtoull()
sfkeyprintf: upgrade to int_max args
ast.h: add ssizeof() to work around unsigned botch
conf.sh: add shell actions to conf.tab
_DLL*: drop for _BLD_<lib> + __EXPORT__ + __IMPORT__
sfio,cdt,vmalloc: kpv update
96-10-11 <ccode.h>: add character code map support
procclose: return shell style exit status
features/fs: pun statvfs.f_basetype to statvfs.f_reserved7 for mvs
uwin: add subdir for uwin additions
ast_std.h: swab() is from <stdlib.h>
sfio.h: <ast_std.h> if _PACKAGE_ast
magic.tab: add mips[1-4], 64-bit
port tweaks for sol.sun4 and sun4
96-09-06 strerror: add
fmterror: uses strerror
str*search: use sfiso646() order
strpsearch: add

magic: add Magic_t.mime mime type return for magictype()
mime.h: add
strton: use sfsscanf()
strperm: factor in umask() if no who
pathtmp: add TMPPATH check
libevent: add
magic: add discipline to magicopen()
mime: add discipline to mimeopen()
96-08-31 regex:
fix BM fail table generator
96-08-11 mntread: fix mnt.type for SCO variant
conf.tab: add SCO KERNEL_* sysconf() vars
fastfind: add findwrite(), fix findread() FF_OFF omission
ftwalk: reimplement on top of fts
fnmatch,re_comp,regexp: reimplement on top of regex
basename,dirname,fmtmsg,fts,ftw,getdate,getsubopt,glob: add
hsearch,nftw,realpath,strftime,strptime,swab,tempnam: add
tsearch,wordexp: add
getcwd: cache last path for easy test
96-07-17 error: sfsync(NiL) ... write ... sfsync(sfstderr)
astconf: handle readonly *(DEV|DIR) vars
96-04-01 swapop: fix stupid return value bug
features/int.c: fix int_swap generation bug
regnexec,regrexec: fix unsigned underflow init error
ls.h: fix iblocks() to be in units of LS_BLOCKSIZE
96-02-29 magic: space before function is definition with no call
hash: drop hash_info from public interface
hash: OBSOLETE hashlast()
hash: add Hash_root_t.Hash_last_t to public interface
add strsearch() and strnsearch() to complement strlook()

add hashkey.h for keyword->long hash
pathpath: pathpath(0,0,"",0) disables $0 $_ $PWD relative search
sfio: sfstrtod+sfhdr update
regex: fix REG_LENIENT to map BRE \[+?|] to ERE [+?|]
change _std_malloc iffe test so it doesn't hang on alpha
sfhdr.h: features/sfio generates _lib_cvt instead of _i386_cvt
ast_hdr.h: add va_copy(a,b) to copy va_list b to a
getopt: fix stupid getopt() -> optget() bug
sfvprintf: %h? now downcasts
regex: handle strto?l() errno in regcomp()
sfstrtod: _Sfstrtod_already_defined -> _STUB_sfstrtod
ast_std.h: hide valloc() and ignore <strings.h>
sfkeyprintf: pass phony va_list for '2'
regex: change HIT var type from int to size_t in special()
ast.h: add EXIT_STATUS(x) to convert wait() status to sh exit status
96-02-14 regex: add _ to \<...\> isalnum test
regex: fix BM inner loop breakout

features/types: size_t is signed on some systems! => _ast_size_t
sfio: sfrd discipline peek optimization
vmalloc: vmalloc.h malloc family
macro upgrade
tokopen: fix newline bug for non-restore open
sfio: no inline for gcc until it emits for -g too
96-02-12 sfio: internal upgrade
96-02-09 regex: Boyer-Moore boundary fix
vmalloc: snarf latest
96-02-06 regex: add regrecord() and regrexec() for Boyer-Moore record filtering
regex: rearrange regnexec() args to match buffer,count arg style
96-01-31 stk: add STK_NULL to stk.h and stk.c
regex: privatize regex.h and fix min re length computation
workaround lazy strdup() implementations in features/lib _std_malloc
fix stkclose() to free(stream) -- purify missed because of sfio links
unused var cleanup
port/mnt.c must include <ls.h> to get <ast_fs.h>
add SF_FINAL to sfio and stk
sfio reads now on natural block boundaries
add #!!! <level> <message> !!! to tokline()
add REX_BM pre-filter to regcomp/regnexec
96-01-22 add regcomp env.paren overflow checks
96-01-11 add Doug McIlroy's regex (converted to C from C++ by gsf)
AT&T Research now
sfgetr optimization

regex buglets
96-01-05 tweak magic.tab for win32
95-12-25 add !(...) -> (...)! to fmtre()
nt tweaks -- functions with no header proto must be defined extern
95-11-24 version 4.1
add mnt.h mntopen mntread mntclose
convert fmtfs to mnt.h
add RE_LEFTANCHOR and RE_RIGHTANCHOR
gcc inlines must also have global library function instantiation!
add hashview()
fix strtape() internal buffer flow
fix mntread() fs/dir transposition for uts mnttab
95-10-31 change features/unistd.c includes to break limits-param cycle
add cdt from kpv
sfio snarf from kpv
add [ht]search for _WIN32
95-10-11 clarify PARANOID pathcheck() warning
fix procopen() LIB_SPAWN environ bug with setenviron() cache
fix setenviron() bug that forgot to reset environ if == 0
add %Z '\0' output format to sfkeyprintf()
sfio snarf for sfvprintf fix
allow multiple hashscan() with scope caveat

add comp/fakelink.h to synthesize a few symlink text patterns
add !<xxx> magic to misc/magic.tab
add
FTW_TOP to inhibit recursion (for ftw side effects on top level)
add memfatal() common malloc fatal exception message
add dos \r\n test to misc/magic.c/cklang()
sftmp() O_EXCL+random to avoid collisions
pathtemp() uses sftmp() randomizing
features/fs uses SF_APPENDWR
sftmp() uses pathtemp() -- don't worry, its not circular
a few more _WIN32 compatibility additions
realloc fixed to use VM_RSCOPY|VM_RSMOVE instead of obsolete 1
add hashlook(tab, oldname, HASH_RENAME, newname)
a few more tweaks to satisfy port warnings
add _SFIO_INLINE_PRIVATE to provide real function too
fix <dirent.h> installation test
oops object / shared library compat with _sfgetl2 _sfgetu2
95-09-11 add getopt() compatibility
add fstat,lstat,mknod,stat fixes for _x versions in sys/stat.h
add getconf CONFORMANCE - posix for things that aren't ast default
sfio_t.h: #ifndef _SFIO_H #include "sfio.h" #endif
snarf vmalloc from kpv
95-08-11 fix malloc bug in magic
update linux and bsd
386 magic entries
error_info.auxilliary returns new level, |=ERROR_OUTPUT if msg done
drop fnmatch from strmatch for sparc (solaris) until it collates
95-07-17 fix port/astconf universe initialization
fix misc/optget opt_info.nopt initialization
drop tmset() TZ=... because it only worked when TZ=... was ignored
95-05-09 mongo <ast.h> namespace cleanup
drop > 2 year old obsolete interfaces
sfvprintf.c fix for (char:8 short:16 int:32 long:64) architectures
TMP_MAX back into conf.tab
pathbin() and pathshell() now use astconf()
fix pathtemp() to not cache getenv("TMPDIR")
fix ftwalk() metaphysical to handle non-dirs too
initialize *_info = { 0 }; for ancient ld semantics (NeXT)
fix magic() to do vmfree()
astconf(X_OK) must prefix lines with "getconf"
use <wchar.h> and wctype in strmatch() if available
_lib_utime_now checks utime(path,0)
_lib_poll_notimer checks poll(x,0,timeout)
add another _lib_utime_now check to port/touch.c
fix dd_buf cast in dir/opendir.c

split getconf.h into conftab.h and conftab.c for :READONLY:
use mbtowc() only if MB_LEN_MAX>1

sfio char* -> Void_t* cleanup
handle old syntax in misc/magic.c
sigdata.c holds readonly signal strings
pathcheck() does AT&T checks for tools matching PARANOID - yuk
unused var cleanup
deprecate hash_info in favor of hashlast()
fix bad conf.sh ksh integer interactions
dll cleanup
magic.c falls back to malloc for now
add environ to <ast.h> -- C library global data syms are *RESERVED*
sfhdr.h memccpy(1,2,3,size_t) prototype
95-04-01 version 4.0
convert to vmalloc
allow sigcritical() nesting mismatch to work around vfork() bug
add strexpr() primitive for streval() with user handle (like ftwalk)
add <magic.h> and magic.c file command magic interface
update magic mail message entry
fix keyprintf() invisible char count nesting bug
add sfstrnew(SF_READ|SF_WRITE) for alternate sfstropen() modes
sfstrnew(SF_READ) but reading requires sfseek(), sfreserve()

add conf.tab and conf.sh to nail C/POSIX limits/unistd macros
add getconf() string interface to *conf*
_DLL_INTERMEDIATE_DATA for systems that require indirect globals
_DLL for building shared libraries with _DLL_INTERMEDIATE_DATA
vecfile() restricted to S_ISREG()
add spawnveg() for job control
convert procopen() PROC_PGRP(id) to spawnveg()
fmterror() returns error text given errno (strerror() does same)
fmtsignal() returns signal text given errno (strsignal() does same)
{sig_name,sig_text,SIG_MAX} -> sig_info.{name,text,sigmax}
liberror("",...) omits [%s library] prefix
update features/signal.c table
add vmdisc() and change vmnewof() to use vmresize()
fix conf.sh to allow refs to previously defined limits
fix undefined entries in getconf()
magic data in magic.tab
fix stropt() pointer cast
vmalloc() exception handler replaces nomalloc()
merge sigdata.c into fmtsignal.c -- sun link needs function w/ data!
sftmp() bug fix
drop local <unistd.h>
even with _POSIX_SOURCE
fix vmstrdup() macro arg miscount
fix conf.sh to handle enum'd symbolic constants in unistd.h
drop malloc() et.al. prototypes from vmalloc.h
fix sfvprintf() %d argument reference
add OSF/1 AES symbol(s) to conf.tab

determine standards prefix from conf.tab
add _CS_SHELL to conf.tab
getpath() default is confstr(_CS_PATH)
getshell() default is confstr(_CS_SHELL)
unify keyprintf user function args (should have learned by now!)
add quad type to magic
add astfeature() to unify universe style dynamic features
add ftwflags() to determine FTW_* flags from astfeature()
95-03-11 fix stropt() to not modify its *const* arg
handle '"\ quotes and chresc() in stropt() values
, treated like :space: between stropt() options
fix procopen() fd dup to ignore self-dups
add library id[] to misc/state.c
add ftwalk(FTW_METAPHYSICAL) for posix -H
sfvprintf() now handles balanced () in %()
add tmfmt() with buffer size check to replace tmform()
add
fmttime() calling tmfmt() to fit fmt*() mold
add <keyprintf.h> and keyprintf() to support %(...)? in commands
add Hash_table_t for size==0 in stropt()
add EXTTYPE extended header to tar.h
95-02-14 sfmove() buffer size overflow fix
add _SFSTDIO_H to sfio.h
rename setenv() to setenviron() -- posix finally decided
rename <option.h> opt_* to opt_info.*
update features/unistd.c for _SC_* and _PC_* posix additions
95-01-19 (char*)uchar cast in fmtesc()
fix hash bucket memory leak in hashlook() [via John Mocenigo]
update strings/strtape()
fix optget()/optjoin() to handle leading +
add ALIGN_ prefix to <align.h> identifiers
95-01-11 change tm/*.c tmset(0) to tmset(tm_info.zone) to keep user setting
fix tmform() %Z null pointer dereference
95-01-01 add this RELEASE file
fix strperm() to properly handle "644 file"
fix tokline() to return last '\0' terminated line in string
fix tokscan() to properly handle \\n splice
add fmtesc() to complement stresc()
add LS_NUMBER
to fmtls()
drop spurious optusage() ' '

:::::::: libcmd ::::::::

12-06-25 getconf.c: don't defer to native getconf if we are it -- doh
12-06-19 tail.c: be nice and use sh_sigcheck() and tvsleep() to verify interrupts
12-05-31 cat,head,tee: use errno==EPIPE => ERROR_PIPE(errno)
12-05-25 vmstate.c: #include <sfdisc.h> for sfkeyprintf() prototype

12-04-20 chgrp.c,chmod.c,cksum.c,cp.c: default fts_flags()|FTS_META (to disable pure FTS_PHYSICAL)
12-03-26 cp.c: fix --interactive astquery() logic that ignored no&quit!
12-02-14 rm.c: --force ignores no file operands specified
12-01-10 b_* (int, char**, void*) => (int, char**, Shbltin_t*)
11-08-27 pids.c: add getsid() iffe test
10-08-16 chmod.c: add -l alias for { -h --symlink }
11-08-16 chgrp.c: change lchmod() ref to lchown()
11-05-03 cp.c: do not delete src if mv to dest fails -- doh
11-03-28 chmod.c,chgrp.c: fix --symlink logic
11-03-26 rm.c: don't eaccess() check symlinks!
11-01-27 date: add { -R, --rfc-2822, -T, --rfc-3339=type }
11-01-03
chgrp.c: --symlink => --physical
10-12-10 rm.c: fix not-writable logic
10-12-01 tee.c: add iterrupt logic for slow open(1) -- needs to be generalized
10-11-30 chgrp.c: add -N,--numeric to bypass name lookup
10-10-20 cp: add --timestamps (preserv timestamps and permissions)
10-10-20 ln: fix 'cannot replace existing file' logic
10-10-10 cp,mv: add --remove-destination
10-08-11 cp.c,expr.c: use conformance("standard",0) test
10-08-11 cut.c: use mbnsize() instead of mblen() (for ast C.UTF-8)
10-07-28 chgrp.c,chmod.c,cksum.c: fts_path for diagnostics, not fts_accpath!
10-06-14 rm.c: fix -rfu logic
10-06-12 paste.c: repeat after me: do not modify argv[i]
10-06-01 sync with ast api 20100601
10-05-09 tail.c: fix -0f bug that inially listed the entire file
10-05-06 basename.c: add { -a,--all -s,--suffux=suffix } from BSD
10-04-12 cat.c: fix -v bug that dumped core and make consistent with cmp --print-chars
10-04-11 cmp.c: add --print-bytes, --count=n, --differences=n
10-04-08 vmstate.c:
add { method flags } vars for Vmstat_t.mode
10-04-08 mkdir.c: fix check for { S_ISUID S_ISGID S_ISVTX } after successful mkdir(2)
10-04-01 stty.c: add --fd=fd option
10-03-23 tail.c: fix -f large initial offset bug that didn't copy all data
10-03-07 tail.c: sfsync(sfstdout) after all -f done, fix -f partial line
10-03-05 mktemp.c: add --regress=seed for testing
10-03-05 vmstate.c: add
10-01-26 tail.c: -f sleep(1) only if no progress from last round of checks
10-01-20 fts_fix.[ch]: use <fts_fix.h> instead of <fts.h> (see fts_fix.c)
10-01-20 cp.c: free(state) if called from old shell
09-12-10 join.c: <wctype.h> for iswspace()!
09-12-04 cmd.h: fix CMD_DYNAMIC logic
09-12-04 cut.c: handle -d mb
09-12-03 mkdir.c: add --verbose
09-11-30 cat.c,date.c,cksum.c: drop setlocale() call already done by optget()
09-11-30 join.c: handle -t mb
09-11-28 wclib.c: { -w -L } mb independent of -m
09-11-28 paste.c: handle -d mb

09-11-28 uniq.c: handle -s mb
09-11-28 cksum.c: FTS_SEEDOTDIR by default
09-09-09
fds.c: add --unit=fd
09-08-25 tail.c: initialize Tail_t.fifo=0 !!
09-08-15 tail.c: fix fifo logic
09-08-11 wc.c: add setlocale(LC_CTYPE,"C") cleanup, add utf8 optimzations
09-08-10 uniq.c: replace -c 1..9999 sfsprintf() with inline conversion
09-08-01 join.c: fix empty field null pointer deref
09-07-23 pathchk.c: add -P,--path and -a,--all
09-07-02 chgrp.c,chmod.c,cksum.c: fts_flags() default only if not --recursive
09-06-19 cmd.h,cmdinit.c: add ERROR_CALLBACK for ERROR_NOTIFY main() callback
09-06-19 mktemp.c: --unsafe now checks and prints path but does create
09-06-19 tee.c: add ERROR_CALLBACK for tee_cleanup() sfio discipline pop
09-06-18 rm.c: handle interrupts during interactive query
09-06-18 cp.c: handle interrupts during interactive query
09-05-25 tail.c: fix old style option logic to handle --invalid-long-option
09-05-24 tail.c: -r == +1r
09-05-01 mktemp.c: handle foo/prefix, add -p dir and -u
09-03-31 cat.c: handle --no* options
09-03-15 tail.c: fix --timeout termination
logic
09-03-03 tee.c: clean up sfio disciplines on error
09-03-03 cat.c: fix -v|-e|-n|-B interaction bugs
09-02-14 tail.c: fix VSC failures
09-02-14 join.c: fix VSC failure
09-02-02 uniq.c: document -number == -fnumber, +number == -snumber
09-02-02 tail.c: fix usage[] for negative offsets, add sun -b
09-02-02 mktemp.c: add
09-02-02 features/utsname: UWIN _UNAME_os_DEFAULT => UWIN
09-01-31 dirname.c: add experimental { -f -r -x } for pathpath(3)
09-01-05 cmp.c: fix EOF diagnostic to conform to posix
09-01-03 mkfifo.c: fix --mode=mode logic
08-12-07 date.c: add %[_][EO]K for [space pad] [full|long] iso docs
08-11-10 stty.c: check for -t grouping so -tostop != -t -ostop
08-10-15 rm.c: handle 'rm -f x x' => exit 0
08-09-08 stty.c: #ifdef guard TAB[012] -- freebsd: damn the posix, full speed ahead
08-06-17 shcmd.h: move to libast
08-04-24 uniq.c: add optget() 'n' option for -1 => -f1
08-04-24 getconf.c: clarify diffs between "name - value" and "name = value"
08-04-01 cut.c: add write error
check
08-04-01 paste.c: fix --noserial stream vector access bug
08-04-01 pids.c: add ls/ps style --format=format
08-04-01 stty.c: fix off2 unitialized reference
08-03-28 chgrp.c: add --before=file
08-03-14 pids.c: add
08-03-11 chgrp.c: fix -m to use uid:gid as lookup key

08-02-11 Makefile: add -lmd possibly required by sumlib.o -- hack alert
08-01-30 expr.c: fix <=0 type that broke substr * 1 * -- wow
07-12-13 cp.c: fix builtin state reinitialization
07-11-29 rev.c: honor multibyte locales
07-11-27 cp.c: open non-existent destination with O_EXCL
07-11-27 stty.c: add -t,--terminal-group to list tty pgrp
07-11-27 cksum.c: --silent -s => -S, -s == -x sys5 for gnu compatibility
07-11-11 tee.c: drop ancient bsd compatibility "-" operand => SIGINT
07-10-29 cksum.c: add SUM_LEGACY for -r
07-10-12 cp.c: plug usage string memory leak by using per-builtin state
07-09-21 cksum.c: add sumprint() default scale arg, --scale, --bsd for solaris
07-09-10 chmod.c: add --show,-n
07-07-27 wclib.c: bias
<wchar.h> checks for modern unix
07-07-17 cat.c: fix --squeeze-blank to reduce multiple blank lines to *one*
07-05-20 cmd.h: handle msvc's balk at if(0)0=0;
07-05-20 cksum.c: #include <modex.h>
07-05-11 cmd.h: add _CMD_CONTEXT_OK() to verify >= 20070511 context
07-05-09 fds.c: handle ipv6 sockets
07-05-09 cmd.h: <shbltin.h> : cmdquit() => sh_checksig(context)
07-04-25 mkdir.c: force (S_ISVTX|S_ISUID|S_ISGID) after mkdir(2)
07-04-24 procrun.c: add -last intercept => sh_run() and whence -q
07-04-19 uname.c: name operands first checked for CS_NAME, then NAME
07-03-28 date.c: add --unelapsed=scale, -U: fmtelapsed() => strelapsed()
07-03-25 wclib.h: iswspace() requires <wctype.h>!
07-03-11 tty.c: add sysV --line-number, -l
07-02-26 Makefile: sumlib.o: direct extract from +lsum (vcodex someday)
07-02-24 Makefile: tweak cmdext.h action for --mam bootstrap
07-02-09 Makefile: { cmdext.h cmdlist.h } depend on *.c list!
07-02-09 Makefile: +lsum to bring in static -lsum (no dynamic right now)
07-02-07
cksum.c: move from src/cmd/std with ftwalk => fts
07-02-07 getconf.c: handle /bin == /usr/bin in defer logic
07-01-26 chmod.c: don't FTS_FOLLOW if !FTS_PHYSICAL
07-01-23 cut.c: Cut_t variable dimension list[] must be last member
07-01-22 uname.c: fix -h typo that clobbered astconf() state -- ouch
07-01-02 fmt.c: fix buffer splice off by one bug -- what else
06-11-23 cmd.h: because of proto cmdinit cannot be a function like macro
06-11-21 cp.c: fix 06-10-31 const dot[] readonly assignment
06-11-15 cp.c: fix 06-10-31 ln -s enoent bug
06-11-11 getconf.c: let astconf() handle "undefined" vs. ""
06-11-11 getconf.c: fix deferred getconf path search
06-11-11 fmt.c: handle two char { \t \n } in --usage ouput
06-10-31 global edit to eliminate most non-const static data0
06-10-31 use <cmd.h> for all b_*() implementations; drop <cmdlib.h>
06-10-31 cmd.h: add CMD_ prefix to { BUILTIN DYNAMIC STANDALONE }
06-10-31 join.c: tone down /tmp usage vi SFSK_DISCARD
06-10-31 cp.c,rm.c: update to <fts.h>

to accomodate non-static data
06-10-29 date.c: "...%H%..." => "...%H" "%..." to avoid SCCS conflict
06-10-26 fds.c: handle sctp
06-10-18 tail.c: fix invalid suffix infinite loop
06-10-11 chgrp.c,cp.c: add sfstruse() error checks
06-10-10 tee.c: add --linebuffer, -l
06-10-06 getconf.c: preserve native getconf(1) known variable behavior
06-10-04 sync.c: add (thanks to Roland Mainz)
06-10-04 getconf.c: add -v specification => run native getconf(1)
06-09-28 stty.c: static setmode() => set() for darwin.i386
06-09-27 head.c: handle -1c => -c1
06-09-19 pathchk.c: pathconf() => astconf()
06-09-11 tail.c: handle compatibility corner cases
06-09-08 date.c: add output write error diagnostic
06-09-04 tail.c: fix initial position for -n0, no args => no -f
06-08-28 uniq.c: add -D,--all-repeated
06-08-25 wc.c,wclib.c: add -L,--longest-line,WC_LONGEST
06-08-24 wc.c,wclib.c: implement -m and WC_MBYTE
06-08-24 rmdir.c: -sp applies to every message, add gnu -e
06-08-23 rmdir.c: add solaris --suppress,
-s
06-08-23 mkdir.c: don't add 0300 to -p final dir mode
06-07-17 cut.c: handle last line with no newline
06-07-17 cut.c: --output-delimiter == --line-delimiter
06-06-25 chmod.c: mask -c output with S_IPERM
06-05-09 uname.c: add -o; change -a to match linux
06-05-03 date.c: add --last -L to list last of multiple time args
06-02-14 tail.c: fix -f bug that lost fast stream data
06-02-11 getconf.c: exit 1 if name invalid -- duh
06-01-28 cp.c,rm.c: fix astquery() 'q' to return and not exit()
05-08-11 fmt.c: fix -o to handle raw --usage strings
05-05-17 cat.c,head.c: disable EPIPE error messages
05-04-14 chgrp.c: -f means all non-syntax error messages
05-04-11 fds.c: add from old internal open(1)
05-04-09 cmdext.h,cmdlist.h: generate from source -- about time
05-03-24 features/symlink: verify { lchmod lchown } implementations
05-03-07 date.c: add --listzones to list the time zone table
05-02-14 chmod.c: add --reference=file
05-01-11 cat.c: restore output stream to binary mode on exit
04-12-15
cp.c: add --preserve high resolution time support
04-12-08 date.c: add high resolution time support
04-12-01 cmp.c: fix %6I*ld => %6I*d -- doh
fmt.c: handle "\n\n operands \n\n"
head.c: handle -cN -nN, N > 4Gb
04-11-22 cmp.c: handle >2G chars/lines
04-11-18 fold.c: add --prepend=text, --append=text
04-10-31 tail.c: use SF_LOCKR macro

04-10-28 tail.c: use strtol() for old stype [+-]number[suffix] -- doh
04-10-22 cp.c: check rename() errno==ENOENT to retain destination
04-10-11 fmt.c: fix -o,--optget sublist bugs
tail.c: use strton() for number conversion
04-10-08 pathchk.c: add empty path and -p - first component char
04-10-01 fmt.c: add -o,--optget concatenated usage string format
stty.c: context is ERROR_INTERCATIVE
rm.c: restore 3d before exit
04-09-24 pathchk.c: fix docs
04-09-14 date.c: add %| and %& --parse docs
04-08-27 cp.c: add FTW_DC check -- duh
04-08-01 fmt.c: handle last char != '\n'
04-07-22 date.c,uname.c: access() => eaccess()
04-07-01 fmt.c: handle large
input lines -- ouch
04-06-11 id.c: fix -r to output something!
04-05-27 expr.c: fix `:' op subexpression output
04-04-15 chmod.c: follow symlink for relative mode
04-04-12 Makefile: add STDCHMOD (for osf.alpha)
04-03-19 tail.c: handle -f sfreserve() large chunk failure
04-02-29 cp.c: decouple -f and -i for standard CONFORMANCE
cp.c: mv now attempts rename() before remove()+rename()
date.c: -f format or +format disables system clock set
04-02-14 cp.c: add -F --fsync to call fsync(2) for each copied file
04-01-05 head.c: -s now uses opt_info.number for >2Gb skip
03-09-18 tail.c: add --log
03-09-11 rm.c: add --unconditional
03-08-11 fold.c: add --delimiter=c to break at c
03-07-28 features/time: change settimeofday() test to 2nd arg of (void*)0
expr.c: add {match,substr,index,length,quote}
03-07-15 fmt.c: fix trailing space bug
03-06-20 uname.c: fix -p constant string overwrite
03-06-04 stty.c: add undef to control assignment docs
03-05-31 uname.c: add -f and sysinfo()/confstr() compatibility
via astconf()
03-05-27 rm.c: fix inappropriate "/.." append path overflow
cut.c: snarf from dgk
03-05-18 rm.c: check st_nlink to verify progress w.r.t. ftwalk/fts
03-05-15 join.c: fix stealth -v2 bug (thanks ahs)
03-05-04 wc.c: drop trailing space for `wc -l < file'
03-03-21 date.c: add %Q/recent/distant/ docs
03-02-19 date.c: fix %+|!flag docs
02-11-14 update for cmdinit() 4th arg and ERROR_NOTIFY for interrupt cleanup
02-10-02 date.c: tmform() => tmfmt()
02-09-30 date.c,uname.c: change execv() calls to procrun(): exec|exit => bad
02-09-06 wclib.c: fix 1 char-at-a-time miscount bug
02-08-19 chgrp.c: convert to use <cdt.h>
02-07-23 join.c: fix comm snarf typo

02-04-05 date.c: add %u
02-01-24 stty.c: ifdef a few more macros for uts (yes, its still running)
01-12-14 date.c: clarify %z doc
01-10-31 mkdir.c: mkdir() on existing dir could fail with errno!=EEXIST
uname.c: add execve() loop check for unknown options
01-10-29 tail.c: SF_SHARE on only if not reading through EOF
01-10-11
getconf.c: fix usage typos
01-09-11 cp.c,cmd.h: handle . in argv[0]
cp.c: add O_BINARY to all open() calls
01-09-06 tail: input streams must be SF_SHARE -- duh
01-07-16 stty: fix cntl() macro for CC_NATIVE!=CC_ASCII
01-05-31 date: fix /bin/date fallback logic
stty: fix a few mismatched flags, -a and -g option logic
stty: tone down sane to modify current settings rather than from zero
01-05-01 uname: -i => -h, add sol.sun4 -i, add sgi -R, punt to /usr/bin/uname
01-04-17 date,rm: add
01-03-07 cp: fix readonly string mod on "."
01-01-23 cp: `cp foo' => `cp foo .' only for CONFORMANCE!=standard
00-12-01 cut: multibyte support
00-10-31 mkdir: handle races by checking EEXIST
00-09-20 cp: copy argv to stack before modifying in place
00-05-18 add setlocale(LC_ALL,"")
00-04-30 join: drop weird opt_info.argv reference
00-03-17 expr: add == operator -- duh
cp,ln,mv: delay pathcanon() on destination to verify `cp a b/.'
getconf: use astgetconf for proper message control
ERROR_translate:
dictionary update
00-03-08 tail: handle multiple -f files
00-03-07 fmt: add
00-03-07 dirname: handle PATH_LEADING_SLASHES as documented
tail: accept + options
00-02-14 chmod: --ignore-umask to ignore umask(2) in symbolic expressions
chmod,chgrp,cp: use FTS_NOSEEDOTDIR for correct path construction
cat: fix -n (was ignored, wow)
00-01-27 getconf: add "-a" and "-v spec" for sol7.* compatibility
99-09-09 join: fix -j1 vs. -j 1, add --ignorecase
99-06-22 paste: defualt delim in writable string
99-06-16 cat: fix --dos-ouput typo
99-06-11 cp: tighten chown() diagnostics
99-06-08 expr: nothing for NULL string bug fix
99-05-21 paste: fix missing newline columnize bug
99-05-20 mv: do not check for `mv foo foo' since rename() handles it
99-05-01 cmp,comm,cp/mv/ln,expr,fold,getconf,head: long options
join,logname,paste,pathchk,tail,tee: long options
99-04-10 uname: long options, stdize -a
chmod,head,tail,rev: long options

cut: long options, pass regression test 02
99-04-07
cat: long options, fix O_TEXT modes
99-01-11 tail: fix +n
join: another ggs/psm bug
join: all 1 and/or 2 to be unseekable
99-01-01 cp: fix -p
chmod: drop -l option because of clash with l (lock) mode
98-12-25 cat: add -T to sfopen(,,"rt")
98-11-11 chgrp,chmod: cannot open file stream => not found
join: fix another ggs/psm bug; thanks guys
98-10-20 cp: fix cp -rp to update dir times too
98-09-22 join: fix ggs null field bug
98-08-11 join: fix last regression test bug
98-05-29 join: add jp->common to handle boundary conditions
98-03-11 cat,cp,rev,tee: fix sfmove() error checks
98-03-01 join: fix bug that emitted records more than once after eof
cp: fix sfmove() error check
98-02-14 cp: -R physical, -[HLP], -r getconf(PATH_RESOLVE)
98-01-11 cp: check sfclose() return value
98-01-07 chown,chgrp,chmod: use fts for -R
mkdir: fix -p default mode
97-12-07 mkdir: fix umask() reset
97-11-11 chown,chgrp: proper interpretation of -h,-l for lchown()
chown,chgrp: only chown() if uid or
gid change
97-10-31 mkdir: do umask right
97-08-11 cmdinit: clear opt_info.index to allow multiple calls
cp,ln,mv: add
97-07-17 join: fix a few more -a bugs
97-05-31 expr: optget() only if CONFORMANCE==standard
97-04-01 join: fix a few bugs that make it work!
96-12-25 head: sfset(sfstdin,SF_SHARE,1)
Makefile: add -last to cmd lib list
drop function __IMPORT__
96-08-11 tail: check for truncated file and rewind for -f
96-04-08 update <cmd.h>
96-02-29 uname: -a like std, -l for everything
id: add -a (default)
96-02-14 wc: speed up inner loop newline breakout
96-01-30 unused var cleanup
96-01-01 AT&T Research now
pathchk: handle getcwd(0,0) error
expr: switch to <regex.h>
95-11-11 add expr.c
fix cut exit code and -s optimization
95-10-11 add extern b_* to cmd.h
add void* context 3rd arg to b_main()

95-05-09 add getconf
  cat -u avoids mmap
  add chown|chgrp -m uid|gid map file
  add chown|chgrp -P for systems with lchown(2)
  chown|chgrp -P => lstat() too!
  chmod|chown|chgrp
 -HLP
95-04-01 version 1.2
  add rmdir
95-02-14 fix mkdir -p symlink bug
  fix mkdir '/' skip bug that went one too far

::::::::: libcoshell :::::::::

12-02-22 coinit.c: handle non-identifier export var names
11-12-13 cowait.c: handle sfpoll() error return on interrupt
11-11-21 cowait.c: poll before blocking read to weed out killed jobs (no 'x' message)
11-08-30 codata.c,coopen.c: drop macro "..." catenation for old cc
10-08-11 coinit.c: force _BLD_DLL for environ intercept
10-06-01 sync with ast api 20100601
10-05-19 cokill.c: do cowait(co,co,0) to drain pending messages
10-05-15 coshell.h,coopen.c: add CO_ORPHAN for PROC_ORPHAN
10-05-11 coopen.c: add PROC_ORPHAN for CO_SHELL
10-05-10 coopen.c: no atexit() for CO_SHELL
10-04-15 first ksh93u local job pool tests work (service daemon tbd)
10-04-14 cowait.c: add 3rd cowait() arg timeout; 0 Coshell_t* operates on all open coshells
10-04-10 coshell.h: add CO_SHELL for shell using coshell!
09-12-09 coexport.c: add runtime CO_ENV_EXPORT hook
 that avoids changing environ
08-10-28 coopen.c: close write side of parent msgfd -- doh
08-04-28 coexec.c: check for fd 1,2 equivalence before CO_SERIALIZE 2>&1
07-10-29 coshell.h,coexec.c: fix procrun()/system() intercept logic
07-08-15 add CO_SEPARATE,CO_MODE_SEPARATE for separate shell+wait per action
07-04-09 Makefile: $(CC.PIC) to allow archive to be pulled into other dlls
06-08-22 coshell.h: procrun => coprocrun, system => cosystem
06-08-09 coshell.h: export CO_ENV_MSGFD for COSHELL=coshell
06-08-02 coexec.c: Cojob_t.flags&CO_SERVICE for service requests
06-08-02 cokill.c: cokill() signal==0 => kill CO_SERVICE jobs
06-07-27 coexec.c: drop server cowait() that bypassed caller
06-06-21 coexec.c: add non-block cowait() to drain responses
06-06-11 fix service intercept cleanup
06-05-24 add service=name:init lightweight service intercepts
05-04-19 cowait.c: beef up invalid message tests and diagnostics
05-04-11 drop fixed CO_MSGFD for $_coshell_msgfd
05-04-07 coexec.c: fix !_lib_fork&&_map_spawnve
 close-on-exec redirection
04-09-22 cowait.c: remove CO_SERIALIZE temporaries after listing -- duh
04-09-01 co*: add CO_SERIALIZE

04-07-22 system.c: access() => eaccess()
04-02-11 coinit.c: fix CO_CROSS PATH initialization
02-10-30 coclose.c: fix reference-after-free bug in coclose()
02-01-31 codata.c,coopen.c: fix CO_MSGFD parameterization
02-01-24 coopen.c: fix small memory leak
01-10-26 coopen.c: hung sfclose(fp) -> close(sffileno(fp)) -- wow
01-09-11 coinit.c: fix coident[] for ancient bsh that die on `test == 1'
coinit.c: and fix coident[] to weed out buggy ksh88i trap on exit
01-05-31 co*: add CO_CROSS, expose CO_DEVFD
01-04-23 coquote: add state.type to avoid getenv() overwrite on some systems
01-01-01 cokill: killjob => cokilljob, killshell => cokillshell
00-12-18 coinit: CO_OSH ? "${!-$$}" : "${!:-$$}"
00-10-25 codata: $ZSH_VERSION is not ksh
00-02-14 procrun,system: system(3) returns wait() status (not shell status)
99-11-19 co*: add CO_OSH for bsdi lack of
times(1)
coexec: CO_IGNORE for all but real ksh
98-06-22 coinit: quote cd path arg

:::::::: libsum ::::::::

12-02-29 sum-sha2.c: bitcount[] order reversed to allow a single noalias buffer copy
09-09-28 sumlib.c: use simple (faster) method name match function
08-06-05 sum-lmd.c: align context to largest int
08-05-01 sumlib.c: add some -lmd verification checks
08-02-11 sum-lmd.c,features/sum: add wrapper for solaris -lmd
07-10-29 sum.h,sumlib.c: add SUM_LEGACY for legacy output format
07-09-21 sum-sha1.c: reinstate Steve Reid's public domain implementation
07-07-26 sumlib.c: drop GPL sum-sha1.c
05-02-14 sumlib.c: split into sum-*.c
05-02-14 sum-sha2.c: add SHA { 256 384 512 }
04-02-29 Makefile: compile with $(CC.PIC) for codexlib/sum $(CC.DLL)
03-12-16 add { crc prng } generic methods and maps[] to these methods
03-12-16 sum.h,sumlib.c: add sumdata()
03-09-29 sumlib.c: fix FNV to use ^ instead of +
03-04-28 sumlib.c: drop md5 `zeroize' for performance
sumlib.c: add FIPS 180-1 SHA-1

::::::::
libdll ::::::::

12-07-25 add debug diagnostics
11-10-11 dll_lib.c: add { dllnames() dll_lib() }
10-10-20 dllscan.c: version arg "-" => 0
10-10-19 dllplug.c: fix bug that wiped out dlopen() error message
10-10-19 dllplug.c: un-localize lookup names (happens with cut and paste)
10-10-19 dllscan.c: still no code for implicit libs missed by dlopen()
10-08-02 dllplug.c: fix local path dllcheck() call

10-05-28 dllplug.c: add dllplugin() with dllcheck() version check
10-05-28 dllcheck.c: add dllcheck() to do plugin_version() checks
10-05-28 dllerror.c: add dllerror(int retain) for dll*() and dl*() messages
09-11-17 dllscan.c: handle name[-.]version in dlsopen()
09-04-15 dllopen.c: add, use dllopen() internally to wrap dlopen()
08-05-12 dllscan.c: LIBSUFFIX==.dylib => default plugin version match 0.0
06-10-11 dllscan.c: check sfstruse() return values -- doh
06-01-25 dllplug.c: add errorf() library message for dlopen() error
05-02-14 dllscan.c: "" || "-" => NiL
04-10-01 dllfind.c:
drop ksh "builtin" workaround
dllscan.c: directory prefix in name limits search to dir and siblings
04-07-22 dllscan.c: access() => eaccess()
04-01-30 dllfind.c: dllplug(error_info.id) then dllplug(0)
04-01-28 dllscan.c: update for new plugin scheme: lib/foo/bar.xxx
dllplug.c: add dllplug() for plugin dllfind()
03-03-12 dllfind.c: dlopen() with RTLD_GLOBAL|RTLD_PARENT defaults
03-02-11 dllscan.c: change LIBPATH to <dir>[:<env>[:<pat>]][,...]
03-01-08 dllscan.c: hack version logic again -- is consistency rocket science?
03-01-07 dlfcn.c: fix darwin.ppc dlopen/dlsym/dlclose
02-11-18 dllfind.c: add path,size args (with backwards compatibility checks)
02-11-15 dllfind.c: check for ./path if '.' in path but no '/'
02-08-30 dllfind.c: fix a bug that returned uninitialized value on not found
02-08-28 dllscan.c: handle and display bin as a sibling dir
02-07-31 dllscan.c: add dllsopen,dllsread,dllsclose
dllfind.c: use dllsopen,dllsread,dllsclose
02-07-26 dllfind.c: add dllinfo()
02-06-27
dllnext.c: define _GNU_SOURCE to enable RTLD_NEXT
02-03-17 dllfind.c: fix dll prefix search (for cygwin)
02-01-11 features/dll: include <dlfcn.h> only if _hdr_dlfcn&&_lib_dlopen
01-10-31 dlfcn.c: change hp.pa dlopen() prototype (<dlfcn.h> but no -ldl!)
01-09-25 dllfind: add LIBSUFFIX
01-07-17 dllfind: do at least one dlopen() to prime dlerror()
01-05-29 dlopen: fix dlopen(0,0) for HP
01-04-20 dllfind: use getconf HOSTTYPE LIBPATH LIBSUFFIX
01-02-14 features/dll: fix unbalanced ' quote and ancient hostinfo reference
00-01-26 dlllook: add -- dlsym() with `_' weak prefix fallback
99-04-01 features/dll: drop <stdio.h> -- iffe protos printf
99-03-19 static=1 for all but win32.*
98-06-01 dllfind: fix version search
98-03-11 features/dll: probe for _DLL_RLD_SYM
98-03-01 dllnext: fix to work!
98-01-23 -ldl test moved to lib0ast
98-01-11 update for astconf("LIBPATH")
add dllnext(flags) to uncover next layer
dllfind() and dllnext() in separate files (for 3d)
97-10-11 move from libast so libast

can link static

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/lib/package/ast-ksh.README
No license file was found, but licenses were detected in source scan.

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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ksh.spec
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```
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*             Glenn Fowler <gsf@research.att.com>              *
*             David Korn <dgk@research.att.com>                *
*              Phong Vo <kpv@research.att.com>                 *
*                                                      *
***********************************************************************/
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Found in path(s):
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/port/astlicense.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/string/strntonll.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/misc/translate.c
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/substring.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/execrate.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/variables.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/namespace.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/mktest.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/select.sh
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/options.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/rt.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/mkdir.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/subshell.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/attributes.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/bracket.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/arith.sh
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/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/return.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/expand.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-

7ZUpQFhL/src/cmd/ksh93/tests/signal.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/src/cmd/INIT/ignore.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/comvario.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/types.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/features/sig.sh
*
/ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/comvar.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/nameref.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/cmd/ksh93/tests/tilde.sh
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libcoshell/ignore.sh
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ast-ksh :PACKAGE: ksh93 libast libcmd libcoshell libsum libdll

:COVERS: ksh

:LICENSE: *.open

:CATEGORY: shells

:INDEX: ksh and support libraries

:DESCRIPTION:
The AT&T Software Technology ast-ksh package from AT&T Research
contains ksh and support libraries. This is the minimal set of
components needed to build ksh.

:DETAILS: cyg
:README:
This package installs a standalone ksh93 executable ksh93.exe
and its man page ksh93.1. If /bin/ksh.exe does not exist then
these symlinks
/bin/ksh.exe => ksh93.exe
/usr/share/man/man1/ksh93.1 => ksh.1
are created. This allows alternative ksh impelementations,
e.g., /bin/pdksh.exe, to be selected by changing the ksh.exe
and ksh.1 symbolic links. In addition, ksh and ksh93 paths are
added to /etc/shells if not already present.
$()
Each builtin or special command accepts the --man and --html

options to list the man page on the standard error. The
--???
option describes the self documenting options available to all
builtin and special commands.
$()
The stanadlone ksh is statically linked with the ast libcmd
library which provides several builtin versions of /bin
commands. "builtin | grep /opt/ast/bin" lists the libcmd
builtins on the standard output. /opt/ast/bin/FOO accesses
the FOO builtin, whether the /opt/ast/bin directory exists
or not. "builtin FOO" allows /opt/ast/bin/FOO to be accessed
as FOO, bypassing the $PATH setting. To enable all libcmd
builtins do one of the following:
  (a) create the directory /opt/ast/bin and the file
      /opt/ast/bin/.paths with this line
       BUILTIN_LIB=.
      and place /opt/ast/bin before /bin and /usr/bin in $PATH
      (this will affect all ksh subshells and scripts)
  (b) run "builtin $(builtin | sed -e '/\//!d' -e 's,.*/,,')"
      (this will affect only the current shell)
Some scripts may run significantly faster with libcmd builtins
enabled.
$()
The
ast library checks the DOSPATHVARS environment variable
for variable path values to convert to and from native windows
format when cross-executing between cygwin and non-cygwin
programs. The value is a space separated list of environment
variables to convert. PATH is handled by cygwin so it is not
converted by the ast library.
$()
The astksh cygwin source package provides a bootstrap build
environment that is not suited for an edit/build/debug cycle.
If you want to explore and modify the source then you should
install the (non-cygwinized) ast-base package which includes
AT&T nmake. With ast-base you will also be able to regenerate
the astksh cygwin source and binary packages.
$()
For more information on ksh and other AT&T ast tools see
   http://www.research.att.com/sw/download/
:EXPORT:
SHOPT_CMDLIB_DIR=1
bin/ksh93.exe :INSTALL: bin/ksh.exe
share/man/man1/ksh93.1 :INSTALL: man/man1/sh.1
:POSTINSTALL:
if [! -e /bin/ksh.exe]
then ln

```
 -fs ksh93.exe /bin/ksh.exe
  ln -fs ksh93.1 /usr/share/man/man1/ksh.1
 else echo "/bin/ksh.exe already exists"
 fi
 if [ -f /etc/shells ]
 then for i in /bin/ksh93 /bin/ksh /usr/bin/ksh93 /usr/bin/ksh
  do if grep $i /etc/shells >/dev/null 2>&1
   then echo "$i already in /etc/shells"
   else echo $i >> /etc/shells
    echo "$i added to /etc/shells"
   fi
  done
 else echo "no /etc/shells file"
 fi
 exit 0
:TEST: bin/ksh
 KSH=$<; cd src/cmd/ksh93/tests; CYGWIN="$$CYGWIN ntsec binmode" SHELL=$$KSH $$KSH shtests
```

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/lib/package/ast-ksh.pkg
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* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/gamma.c
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/src/lib/libast/uwin/erf.c
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license+=(
 type=epl
 id=eclipse
 name="Eclipse Public License"
 version=1.0
 url=http://www.eclipse.org/org/documents/${license.type}-v${license.version//./}.html
 urlmd5=b35adb5213ca9657e911e9befb180842
)

Found in path(s):
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/ast-ksh.2012-08-01.tgz-cosi-expand-archive-7ZUpQFhL/lib/package/epl.def
* /ksh-20120801-142.el7-1.src.rpm-cosi-expand-archive-DSH2087G/INIT.2012-08-01.tgz-cosi-expand-archive-WW1cjjPZ/lib/package/epl.def

1.748 oro 2.0.8

1.748.1 Available under license :

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/*
* $Id: RegexFilenameFilter.java,v 1.9 2003/11/07 20:16:23 dfs Exp $
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/*
* $Id: splitExample.java,v 1.8 2003/11/07 20:16:23 dfs Exp $
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* /oro-2-0-8-sources-4-jar/examples/splitExample.java
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* /oro-2-0-8-sources-4-jar/examples/matchesContainsExample.java
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* $Id: NegativeCharacterClassNode.java,v 1.7 2003/11/07 20:16:24 dfs Exp $
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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/awk/NegativeCharacterClassNode.java
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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/regex/PatternMatcherInput.java
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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/regex/MalformedPatternException.java
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* /oro-2-0-8-sources-4-jar/examples/awk/streamInputExample.java
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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/regex/Substitution.java
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* $Id: GenericCache.java,v 1.8 2003/11/07 20:16:25 dfs Exp $
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* $Id: AwkMatcher.java,v 1.11 2003/11/07 20:16:24 dfs Exp $
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*/
/**
  * Determines if the contents of a PatternMatcherInput, starting from the
  * current offset of the input contains a pattern.
  * If a pattern match is found, a MatchResult
   * instance representing the <b>first</b> such match is made acessible via
  * {@link #getMatch()}.  The current offset of the
  * PatternMatcherInput is set to the offset corresponding to the end
  * of the match, so that a subsequent call to this method will continue
  * searching where the last call left off.  You should remember that the
  * region between the begin and end offsets of the PatternMatcherInput are
  * considered the input to be searched, and that the current offset
  * of the PatternMatcherInput reflects where a search will start from.
  * Matches extending beyond the end offset of the PatternMatcherInput
  * will not be matched.  In other words, a match must occur entirely
  * between the begin and end offsets of the input.  See
  * {@link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput}
  * for more details.
  * <p>
  * As a side effect, if a match is found, the PatternMatcherInput match
  * offset information is updated.  See
 the PatternMatcherInput
  * {@link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets
  * setMatchOffsets(int, int)} method for more details.
  * <p>
  * The pattern must be an AwkPattern instance, otherwise a
  * ClassCastException will be thrown.  You are not required to, and
  * indeed should NOT try to (for performance reasons), catch a
  * ClassCastException because it will never be thrown as long as you use
  * an AwkPattern as the pattern parameter.
  * <p>
  * This method is usually used in a loop as follows:
  * <blockquote><pre>
  * PatternMatcher matcher;
  * PatternCompiler compiler;
  * Pattern pattern;
  * PatternMatcherInput input;
  * MatchResult result;
  *
  * compiler = new AwkCompiler();
  * matcher  = new AwkMatcher();
  *
  * try {
  *   pattern = compiler.compile(somePatternString);
  * } catch(MalformedPatternException e) {
  *   System.err.println("Bad pattern.");
```

```
 *   System.err.println(e.getMessage());
 *   return;
 * }
 *
 * input   = new PatternMatcherInput(someStringInput);
 *
 * while(matcher.contains(input, pattern)) {
 *   result = matcher.getMatch();
 *   // Perform whatever processing on the result you want.
 * }
 *
 * </pre></blockquote>
 * <p>
 * @param input  The PatternMatcherInput to test for a match.
 * @param pattern  The Pattern to be matched.
 * @return True if the input contains a pattern match, false otherwise.
 * @exception ClassCastException If a Pattern instance other than an
 *         AwkPattern is passed as the pattern parameter.
 */
```

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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/awk/AwkMatcher.java
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* $Id: Perl5FilenameFilter.java,v 1.7 2003/11/07 20:16:23 dfs Exp $
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* $Id: StringSubstitution.java,v 1.8 2003/11/07 20:16:25 dfs Exp $
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/*
* $Id: MatcherDemoApplet.java,v 1.5 2003/11/07 20:16:23 dfs Exp $
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* /oro-2-0-8-sources-4-jar/org/apache/oro/text/regex/PatternMatcher.java
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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.752 neethi 2.0.4

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1.753 junit 4.13.2

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1.754 patch 2.7.1-12.el7_7

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1.755 nfs-utils 0.25-19.el7

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1.756 libxfont 7.5-21.el7

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1.759 net-tools 2.0-0.25.20131004git.el7

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1.761 joda-time 2.8.1

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1.762 python-urlgrabber 3.10-10.el7

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1.764 shindig-common 1.1-BETA6-SNAPSHOT

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1.765 axis2-java2wsdl 1.7.9

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /axis-1-4-sources-2-jar/org/apache/axis/management/jmx/DeploymentQuery.java
* /axis-1-4-sources-2-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java
* /axis-1-4-sources-2-jar/org/apache/axis/management/jmx/DeploymentAdministrator.java
*
/axis-1-4-sources-2-jar/org/apache/axis/management/jmx/WSDDServiceWrapper.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/AxisHTTPSessionListener.java
* /axis-1-4-sources-2-jar/org/apache/axis/management/ServiceAdmin.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/AutoRegisterServlet.java
*
/axis-1-4-sources-2-jar/org/apache/axis/management/jmx/ServiceAdministrator.java
* /axis-1-4-sources-2-jar/org/apache/axis/management/Registrar.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/HappyClient.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/SocketHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/Notation.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/encoding/EncodedByteArray.java
*
/axis-1-4-sources-2-jar/org/apache/axis/components/logger/LogFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/SimpleDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/security/AuthenticatedUser.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaMsgProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/Undefined.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/HexBinary.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaBeanFaultWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/java/JavaTransport.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/soap/SOAPFaultException.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/DeserializerTarget.java
* /axis-1-4-sources-2-jar/org/apache/axis/security/servlet/ServletSecurityProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/http/URLMapper.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/TimeDeserializerFactory.java
*

/axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/TimeSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/schema/SchemaVersion2001.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TypeMappingRegistryImpl.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/ByteWrapperHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/AxisServiceConfig.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/encoding/UTF8Encoder.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/CalendarDeserializer.java
* /axis-1-4-sources-2-jar/javax/xml/messaging/URLEndpoint.java
* /axis-1-4-sources-2-jar/org/apache/axis/utils/cache/JavaMethod.java
* /axis-1-4-sources-2-jar/org/apache/axis/utils/DefaultEntityResolver.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/FilterPrintWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/MessageEntry.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/MimeMultipartDataSource.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/net/IBMJSSESocketFactory.java
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/axis-1-4-sources-2-jar/javax/xml/rpc/holders/BooleanHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaHolderWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRPCProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/DocumentDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/EnvelopeBuilder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaStubWriter.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/ServiceException.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDTypeMappingContainer.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/SkeletonImpl.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/http/HTTPActionHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/Skeleton.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaInterfaceWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TypeMapping.java
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* /axis-1-4-sources-2-jar/org/apache/axis/attachments/AttachmentsImpl.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/ParameterMode.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/AttachmentPart.java
* /axis-1-4-sources-2-jar/org/apache/axis/holders/ImageHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRMIProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/providers/java/JavaProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/DateDeserializerFactory.java
* /axis-1-4-sources-2-jar/javax/xml/soap/Name.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/BigIntegerHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/DuplicateFileException.java
* /axis-1-4-sources-2-jar/org/apache/axis/description/FaultDesc.java
* /axis-1-4-sources-2-jar/org/apache/axis/server/AxisServer.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/AxisClientProxy.java
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/axis-1-4-sources-2-jar/org/apache/axis/server/Transport.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/local/LocalTransport.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPConnectionFactory.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/LongWrapperHolder.java

* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/DoubleWrapperHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaTypeWriter.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/handler/HandlerInfo.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/threadpool/ThreadPool.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/Service.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaCORBAProvider.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/handler/GenericHandler.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/encoding/Serializer.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/ShortHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/server/AxisServerFactory.java
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/axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/Base64Serializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/Part.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/NCName.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/BasicHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/image/ImageIO.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/CollectionType.java
* /axis-1-4-sources-2-jar/org/apache/axis/utils/cache/JavaClass.java
* /axis-1-4-sources-2-jar/org/apache/axis/description/ParameterDesc.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDDeployment.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/JettyAxisServer.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TextSerializationContext.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/ImageDataHandlerDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/DocumentSerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/enum/Scope.java
*
/axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/CollectionTE.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/MD5AttachHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/HeaderBuilder.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/CDATAImpl.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaBeanHelperWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/DimeDelimitedInputStream.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/IntegerWrapperHolder.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/StringHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/gen/GeneratorFactory.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPElementFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/compiler/Javac.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/ShortWrapperHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/Base64SerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/Stub.java
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* /axis-1-4-sources-2-jar/org/apache/axis/utils/DefaultAuthenticator.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPFaultElement.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/DeserializerImpl.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/BindingEntry.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TypeMappingRegistry.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaServiceWriter.java

* /axis-1-4-sources-2-jar/org/apache/axis/utils/Options.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/UnsignedInt.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/handler/HandlerRegistry.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/WSDL2Java.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/CalendarSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/uuid/SimpleUUIDGen.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/QNameDeserializer.java
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/axis-1-4-sources-2-jar/org/apache/axis/providers/java/EJBProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ConstructorTarget.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/image/ImageIOFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/mail/MailTransport.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/AxisHttpSession.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/gen/NoopFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/RPCElement.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/Transport.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/JWSHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/TypeEntry.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/server/ServiceLifecycle.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/CalendarDeserializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/security/simple/SimpleSecurityProvider.java
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/axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/QNameSerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/net/DefaultCommonsHTTPClientProperties.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/handlers/ErrorHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TypeMappingImpl.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/net/JSSESocketFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/UnsignedByte.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/CallbackTarget.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/image/MerlinIO.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/ChunkedOutputStream.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDResponseFlow.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/SOAPHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/RPCParam.java
* /axis-1-4-sources-2-jar/org/apache/axis/holders/MimeMultipartHolder.java
*
/axis-1-4-sources-2-jar/org/apache/axis/components/encoding/XMLEncoder.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/SymbolTable.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/SimpleAxisServer.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDComProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/FieldTarget.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/ServiceFactory.java
* /axis-1-4-sources-2-jar/javax/xml/soap/MimeHeader.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/java/JavaSender.java
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* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/Type.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/BeanSerializer.java

* /axis-1-4-sources-2-jar/org/apache/axis/message/InputStreamBody.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/CommonsHTTPSender.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/script/ScriptFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/DimeMultiPart.java
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* /axis-1-4-sources-2-jar/org/apache/axis/handlers/LogHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDChain.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/SimpleSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/async/Status.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/ByteHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDHandlerProvider.java
*
 /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDTransport.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/fromJava/Namespaces.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/QSMethodHandler.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/Attachments.java
* /axis-1-4-sources-2-jar/org/apache/axis/schema/SchemaVersion2000.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/async/AsyncCall.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/HTTPSender.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaEJBProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/VectorDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/VectorDeserializerFactory.java
*
 /axis-1-4-sources-2-jar/org/apache/axis/components/net/CommonsHTTPClientProperties.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaBindingWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/Name.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/DateSerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDUndeployment.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDRequestFlow.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPConnection.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPBody.java
* /axis-1-4-sources-2-jar/org/apache/axis/configuration/DirProvider.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/encoding/SerializationContext.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/SimpleDeserializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/net/BooleanHolder.java
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* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/castor/CastorDeserializer.java
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* /axis-1-4-sources-2-jar/org/apache/axis/session/SimpleSession.java
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* /axis-1-4-sources-2-jar/org/apache/axis/encoding/MethodTarget.java
* /axis-1-4-sources-2-jar/org/apache/axis/i18n/MessageBundle.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/TypeMappingDelegate.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/JAXRPCException.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/HexDeserializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/ManagedMemoryDataSource.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/DefaultJAXRPC11TypeMappingImpl.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/MultiPartRelatedInputStream.java
*
/axis-1-4-sources-2-jar/javax/xml/soap/Detail.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaUndeployWriter.java
* /axis-1-4-sources-2-jar/org/apache/axis/configuration/NullProvider.java
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* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/ElementSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/image/JDK13IO.java
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* /axis-1-4-sources-2-jar/org/apache/axis/utils/cache/MethodCache.java
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* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPException.java
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* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDDeployableItem.java
* /axis-1-4-sources-2-jar/javax/xml/soap/SOAPHeaderElement.java

* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDDocumentation.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/Base64.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/NMToken.java
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* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfo.java
* /axis-1-4-sources-2-jar/org/apache/axis/providers/java/MsgProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/types/Language.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/AttachmentUtils.java
* /axis-1-4-sources-2-jar/org/apache/axis/holders/SourceHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/SimpleType.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/MultiPartDimeInputStream.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/PortTypeEntry.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/ElementDeserializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/BaseSerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/BackslashUtil.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/Target.java
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/axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/DateDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/MessageWithAttachments.java
* /axis-1-4-sources-2-jar/org/apache/axis/Chain.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/BaseFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/compiler/CompilerError.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/DefinedType.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/holders/FloatHolder.java
* /axis-1-4-sources-2-jar/org/apache/axis/NoEndPointException.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/mail/MailWorker.java
* /axis-1-4-sources-2-jar/javax/xml/rpc/ServiceFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/local/Handler.java
* /axis-1-4-sources-2-jar/org/apache/axis/providers/java/RPCProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/PlainTextDataHandlerDeserializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/DimeTypeNameFormat.java
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* /axis-1-4-sources-2-jar/org/apache/axis/providers/BSFProvider.java
* /axis-1-4-sources-2-jar/org/apache/axis/TargetedChain.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/VectorSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/attachments/ImageDataSource.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDDocument.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/java/Handler.java
* /axis-1-4-sources-2-jar/javax/xml/soap/Text.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/gen/WSDL2.java
* /axis-1-4-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDElement.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/HexSerializerFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/uuid/FastUUIDGen.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/http/HTTPConstants.java
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/axis-1-4-sources-2-jar/javax/xml/rpc/handler/HandlerChain.java
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* /axis-1-4-sources-2-jar/org/apache/axis/encoding/DeserializationContext.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/symbolTable/SchemaUtils.java
* /axis-1-4-sources-2-jar/org/apache/axis/client/AxisClient.java
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* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/JavaGeneratorFactory.java
* /axis-1-4-sources-2-jar/org/apache/axis/message/MessageElement.java
* /axis-1-4-sources-2-jar/org/apache/axis/utils/ByteArray.java
* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/gen/Parser.java
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* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/SimpleListSerializer.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializer.java
*
/axis-1-4-sources-2-jar/org/apache/axis/encoding/AnyContentType.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/Handler.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/JMSSender.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/jms/JMSVendorAdapter.java
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* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/JMSURLConnection.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/SimpleJMSWorker.java
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*
/axis-1-4-sources-2-jar/org/apache/axis/transport/jms/JMSEndpoint.java
* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/Subscription.java

* /axis-1-4-sources-2-jar/org/apache/axis/transport/jms/QueueConnector.java
* /axis-1-4-sources-2-jar/org/apache/axis/components/jms/SonicMQVendorAdapter.java
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* /axis-1-4-sources-2-jar/org/apache/axis/wsdl/toJava/NamespaceSelector.java
* /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/SimpleListSerializerFactory.java
*
 /axis-1-4-sources-2-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializerFactory.java
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1.778 glib 2.56.1-5.el7

1.779 vim 2:7.4.629-6.el7

1.780 setroubleshoot 3.2.30-7.el7

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1.784 jaxb-core 2.0.5

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
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 org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* /oauth-client-1-16-sources-1-jar/com/sun/jersey/oauth/client/OAuthClientFilter.java
* /oauth-client-1-16-sources-1-jar/com/sun/jersey/oauth/client/RequestWrapper.java

1.789 geronimo-stax-api 1.0.1

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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/EventFilter.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/EndDocument.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/XMLEvent.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/namespace/NamespaceContext.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/util/EventReaderDelegate.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/Namespace.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLStreamException.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/StartDocument.java
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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/util/StreamReaderDelegate.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLOutputFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLEventWriter.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLInputFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLEventReader.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLResolver.java
*
/geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLStreamReader.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-

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* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLEventFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/ProcessingInstruction.java
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 /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLStreamConstants.java

1.790 xml-commons-resolver 1.1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.792 log4j-to-slf4j 2.17.1

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN

module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ModuleInfo.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfo.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInternal.java
*
 /jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfoGenerator.java
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* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/DotName.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Type.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInternal.java
*
 /jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/NameTable.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationValue.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexView.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/CompositeIndex.java
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* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Result.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriter.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/JandexAntTask.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReader.java
*
 /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderV1.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java

* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV1.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataInputStream.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PrimitiveType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/StrongInternPool.java
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* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java
*
 /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ArrayType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/WildcardType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ParameterizedType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeVariable.java
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* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderImpl.java
*
 /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
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1.802 axis-jaxrpc 1.4

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1.803 jakarta-ws-rs-api 2.1.6

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.809 velocity-engine-core 2.3

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1.810 net-snmp 5.7.2-49.el7_9.1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.823 jibx 1.1.5

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1.824 dbus-java 2.7.1

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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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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.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless
of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at

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For an executable, the required form of the "work that uses the
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1.825 glibc 2.17-323.el7

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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 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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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
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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.

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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.

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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

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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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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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@enumerate a
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@item
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@item
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cause the whole of the work to be licensed at no
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@item
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table of data to be supplied by an application program that uses
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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.)
@end enumerate

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of that work are not derived from the Library,
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Thus, it is not the intent of this section to claim rights or contest
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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.

@item
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under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise,
 if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
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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.

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Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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@item
Verify that the user has already received a copy of these
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@end enumerate

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@enumerate a
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@end enumerate

@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
@end smallexample

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1.831 ognl 3.1.29

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*/
```

Found in path(s):

```
* /ognl-3-1-29-sources-jar/ognl/AccessibleObjectHandler.java
* /ognl-3-1-29-sources-jar/ognl/AccessibleObjectHandlerJDK9Plus.java
*
 /ognl-3-1-29-sources-jar/ognl/AccessibleObjectHandlerPreJDK9.java
```

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Found in path(s):

```
* /ognl-3-1-29-sources-jar/ognl/enhance/ContextClassLoader.java
* /ognl-3-1-29-sources-jar/ognl/enhance/EnhancedClassLoader.java
* /ognl-3-1-29-sources-jar/ognl/OgnlInvokePermission.java
```

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Found in path(s):
* /ognl-3-1-29-sources-jar/ognl/DefaultMemberAccess.java
* /ognl-3-1-29-sources-jar/ognl/MapElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/InappropriateExpressionException.java
* /ognl-3-1-29-sources-jar/ognl/EnumerationIterator.java
* /ognl-3-1-29-sources-jar/ognl/EnumerationPropertyAccessor.java
*
/ognl-3-1-29-sources-jar/ognl/ASTEq.java
* /ognl-3-1-29-sources-jar/ognl/ASTNegate.java
* /ognl-3-1-29-sources-jar/ognl/ArrayElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/DynamicSubscript.java
* /ognl-3-1-29-sources-jar/ognl/ASTNotEq.java
* /ognl-3-1-29-sources-jar/ognl/ObjectArrayPool.java
* /ognl-3-1-29-sources-jar/ognl/IntHashMap.java
* /ognl-3-1-29-sources-jar/ognl/CollectionElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/IteratorElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/IteratorPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ObjectIndexedPropertyDescriptor.java
* /ognl-3-1-29-sources-jar/ognl/EvaluationPool.java
* /ognl-3-1-29-sources-jar/ognl/MethodFailedException.java
* /ognl-3-1-29-sources-jar/ognl/ASTLess.java
* /ognl-3-1-29-sources-jar/ognl/ASTTest.java
* /ognl-3-1-29-sources-jar/ognl/ExpressionSyntaxException.java
* /ognl-3-1-29-sources-jar/ognl/ASTBitOr.java
*
/ognl-3-1-29-sources-jar/ognl/ASTAnd.java
* /ognl-3-1-29-sources-jar/ognl/NumericTypes.java
* /ognl-3-1-29-sources-jar/ognl/ASTInstanceof.java
* /ognl-3-1-29-sources-jar/ognl/ASTNotIn.java
* /ognl-3-1-29-sources-jar/ognl/ClassResolver.java
* /ognl-3-1-29-sources-jar/ognl/DefaultClassResolver.java
* /ognl-3-1-29-sources-jar/ognl/ASTKeyValue.java
* /ognl-3-1-29-sources-jar/ognl/OgnlException.java
* /ognl-3-1-29-sources-jar/ognl/EnumerationElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTBitNegate.java
* /ognl-3-1-29-sources-jar/ognl/ASTShiftRight.java
* /ognl-3-1-29-sources-jar/ognl/ASTGreaterEq.java
* /ognl-3-1-29-sources-jar/ognl/ASTSubtract.java

* /ognl-3-1-29-sources-jar/ognl/TypeConverter.java
* /ognl-3-1-29-sources-jar/ognl/ASTNot.java
* /ognl-3-1-29-sources-jar/ognl/ASTSelectFirst.java
* /ognl-3-1-29-sources-jar/ognl/SetPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTSequence.java
* /ognl-3-1-29-sources-jar/ognl/MemberAccess.java
* /ognl-3-1-29-sources-jar/ognl/ObjectElementsAccessor.java
*
/ognl-3-1-29-sources-jar/ognl/Node.java
* /ognl-3-1-29-sources-jar/ognl/NoSuchPropertyException.java
* /ognl-3-1-29-sources-jar/ognl/ASTXor.java
* /ognl-3-1-29-sources-jar/ognl/ASTOr.java
* /ognl-3-1-29-sources-jar/ognl/ASTMultiply.java
* /ognl-3-1-29-sources-jar/ognl/Evaluation.java
* /ognl-3-1-29-sources-jar/ognl/ASTShiftLeft.java
* /ognl-3-1-29-sources-jar/ognl/ASTRemainder.java
* /ognl-3-1-29-sources-jar/ognl/ASTGreater.java
* /ognl-3-1-29-sources-jar/ognl/ASTBitAnd.java
* /ognl-3-1-29-sources-jar/ognl/ObjectNullHandler.java
* /ognl-3-1-29-sources-jar/ognl/ASTSelectLast.java
* /ognl-3-1-29-sources-jar/ognl/ASTIn.java
* /ognl-3-1-29-sources-jar/ognl/ASTDivide.java
* /ognl-3-1-29-sources-jar/ognl/NumberElementsAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTUnsignedShiftRight.java
* /ognl-3-1-29-sources-jar/ognl/DefaultTypeConverter.java
* /ognl-3-1-29-sources-jar/ognl/ASTAdd.java
* /ognl-3-1-29-sources-jar/ognl/ASTLessEq.java
* /ognl-3-1-29-sources-jar/ognl/ExpressionNode.java
*
/ognl-3-1-29-sources-jar/ognl/MethodAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTAssign.java
* /ognl-3-1-29-sources-jar/ognl/IteratorEnumeration.java
* /ognl-3-1-29-sources-jar/ognl/NullHandler.java
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//--------------------------------------------------------------------------

/*
* This file defines the syntax of OGNL, the Object-Graph Navigation Language.  This
* language was devised by Drew Davidson, who called it Key-Value Coding Language.  Luke
* Blanshard
 then made up the new name and reimplemented it using ANTLR, refining and
* polishing the language a bit on the way.  Drew maintained the system for a couple of
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
* dependency on ANTLR.
*
* See package.html for a description of the language.
*/

options {
    // Parser options
  LOOKAHEAD          = 1;
  STATIC             = false;
  JAVA_UNICODE_ESCAPE = true;
  UNICODE_INPUT      = true;

    // Tree options
  MULTI            = true;
  NODE_DEFAULT_VOID = true;
}

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;
```

```
/**
* OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
* syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
*/
public class OgnlParser
{
}

PARSER_END(OgnlParser)




/**
* This is the top-level construct of OGNL.
*/
Node topLevelExpression() : {}
{
  expression() <EOF> { return
 jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
  assignmentExpression() ( "," assignmentExpression() #Sequence(2) )*
}

// assignment expression (level 13)
void assignmentExpression() : {}
{
  conditionalTestExpression() [ "=" assignmentExpression() #Assign(2) ]
}

// conditional test (level 12)
void conditionalTestExpression() : {}
{
  logicalOrExpression()
     [ "?" conditionalTestExpression() ":" conditionalTestExpression() #Test(3) ]
}

// logical or (||)  (level 11)
void logicalOrExpression() : {}
{
  logicalAndExpression() (("||" | "or") logicalAndExpression() #Or(2) )*
}
```

```
// logical and (&&)  (level 10)
void logicalAndExpression() : {}
{
  inclusiveOrExpression() (("&&" | "and") inclusiveOrExpression() #And(2) )*
}


// bitwise or non-short-circuiting or (|)  (level 9)
void inclusiveOrExpression() : {}
{
  exclusiveOrExpression() (("|" | "bor") exclusiveOrExpression() #BitOr(2) )*
}


// exclusive or (^)  (level 8)
void exclusiveOrExpression()
 : {}
{
  andExpression() (("^" | "xor") andExpression() #Xor(2) )*
}


// bitwise or non-short-circuiting and (&)  (level 7)
void andExpression() : {}
{
  equalityExpression() (("&" | "band") equalityExpression() #BitAnd(2) )*
}


// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
  relationalExpression()
  (
     ("==" | "eq") relationalExpression() #Eq(2)
   |
     ("!=" | "neq") relationalExpression() #NotEq(2)
  )*
}


// boolean relational expressions (level 5)
void relationalExpression() : {}
{
  shiftExpression()
  (
     ("<" | "lt") shiftExpression() #Less(2)
```

```
    |
      (">" | "gt") shiftExpression() #Greater(2)
    |
      ("<=" | "lte") shiftExpression() #LessEq(2)
    |
      (">=" | "gte") shiftExpression() #GreaterEq(2)
    |
      "in" shiftExpression() #In(2)
    |
      "not" "in" shiftExpression() #NotIn(2)
    )*
}


// bit shift expressions (level 4)
void shiftExpression() : {}
{
    additiveExpression()
    (
      ("<<" | "shl") additiveExpression() #ShiftLeft(2)
    |
      (">>" | "shr") additiveExpression() #ShiftRight(2)
    |
      (">>>" | "ushr") additiveExpression() #UnsignedShiftRight(2)
    )*
}


// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
    multiplicativeExpression()
    (
      "+" multiplicativeExpression() #Add(2)
    |
      "-" multiplicativeExpression() #Subtract(2)
    )*
}


// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
    unaryExpression()
    (
      "*" unaryExpression() #Multiply(2)
    |
      "/" unaryExpression() #Divide(2)
```

```
  |
    "%" unaryExpression() #Remainder(2)
  )*
}

// unary (level 1)
void unaryExpression() : {
  StringBuffer sb;
  Token t;
  ASTInstanceof ionode;
}
{
  (
    "-" unaryExpression() #Negate(1)
  |
    "+" unaryExpression() // Just leave it there
  |
    "~" unaryExpression() #BitNegate(1)
  |
     ("!" | "not") unaryExpression() #Not(1)
  |
    navigationChain()
    [
       "instanceof"
       t = <IDENT>  { sb = new StringBuffer(t.image); ionode = jjtThis; } #Instanceof(1)
       (   "." t = <IDENT>         { sb.append('.').append( t.image ); }
       )*                          { ionode.setTargetType( new String(sb) ); }
    ]
  )
}


// navigation chain: property references, method calls, projections, selections, etc.
void navigationChain() : {}
{
  primaryExpression()
  (   "."
    ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
       ( LOOKAHEAD(2) methodCall() | propertyName() )
         // Also handle "{", which requires a lookahead of 2.
    |  ( LOOKAHEAD(2) projection() | selection() )
    |  "(" expression() ")"
    ) #Chain(2)

  |  index() #Chain(2)

  |  "(" expression() ")" #Eval(2)
```

```
        /* Using parentheses to indicate evaluation of the
 current
            object makes this language ambiguous, because the
            expression "ident(args)" could be seen as a single
            method call or as a property name followed by an
            evaluation.  We always put the method call first and
            turn off the ambiguity warning; we always want to
            interpret this as a method call. */

  )*
}


void primaryExpression() : {
  Token   t;
  String  className = null;
}
{
  (
    (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
<FLT_LITERAL>)
                                { jjtThis.setValue( token_source.literalValue ); } #Const(0)
   |
    "true"                        { jjtThis.setValue( Boolean.TRUE ); }  #Const(0)
   |
    "false"                       { jjtThis.setValue( Boolean.FALSE ); } #Const(0)
   |
    "null" #Const(0)                    // Null is the default value in an ASTConst

  |
    LOOKAHEAD(2) "#this"              { jjtThis.setName( "this" ); } #ThisVarRef(0)
   |
    LOOKAHEAD(2) "#root"              { jjtThis.setName( "root" ); } #RootVarRef(0)
   |
    LOOKAHEAD(2) "#" t=<IDENT>            { jjtThis.setName( t.image ); } #VarRef(0)
   |
    LOOKAHEAD(2) ":" "[" expression() "]"   { jjtThis.setValue( jjtThis.jjtGetChild(0) ); } #Const(1)
   |
    staticReference()
   |
    LOOKAHEAD(2) constructorCall()
   |
      // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
    ( LOOKAHEAD(2) methodCall() | propertyName() )
   |
    index()
   |
    "(" expression() ")"
```

```
  |
    "{" [assignmentExpression() ("," assignmentExpression())*] #List "}"
  |
    LOOKAHEAD(2) ( "#" (className=classReference())? "{" [keyValueExpression() ("," keyValueExpression())*] { jjtThis.setClassName(className); } "}" ) #Map
  )
}

void keyValueExpression() : {}
{
    ( assignmentExpression()
 (":" assignmentExpression())? ) #KeyValue
}

void staticReference() : {
  String className = "java.lang.Math";
  Token t;
}
{
  className=classReference()
    ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
      LOOKAHEAD(2)
      staticMethodCall( className )
     |
      t=<IDENT>             { jjtThis.init( className, t.image ); } #StaticField(0)
    )
}

String classReference(): {
  String     result = "java.lang.Math";
}
{
  "@" ( result=className() )? "@" { return result; }
}

String className(): {
  Token t;
  StringBuffer result;
}
{
  t=<IDENT>             { result = new StringBuffer( t.image ); }
  ( "." t=<IDENT>       { result.append('.').append( t.image ); }
  )*                    { return new String(result); }
}

void constructorCall() #Ctor : {
  String className;
  Token t;
```

```
  StringBuffer sb;
}
{
  "new" className=className()
     (

   LOOKAHEAD(2) (
          "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
             {
                jjtThis.setClassName(className);
             }
       )
       |
       LOOKAHEAD(2) (
          "[" "]" "{" [assignmentExpression() ("," assignmentExpression())*] #List "}"
             {
                jjtThis.setClassName(className);
                jjtThis.setArray(true);
             }
       )
       |
       LOOKAHEAD(2) (
          "[" assignmentExpression() "]"
             {
                jjtThis.setClassName(className);
                jjtThis.setArray(true);
             }
       )
     )
}

void propertyName() #Property : {
  Token t;
}
{
  t=<IDENT> { jjtThis.setValue( t.image ); } #Const
}

void staticMethodCall( String className ) #StaticMethod : {
  Token t;
}
{
  t=<IDENT> "(" [ assignmentExpression()
 ( "," assignmentExpression() )* ] ")"
                              { jjtThis.init( className, t.image ); }
}

void methodCall() #Method : {
```

```
  Token t;
}
{
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"
                                { jjtThis.setMethodName( t.image ); }
}

/**
* Apply an expression to all elements of a collection, creating a new collection
* as the result.
*/
void projection() #Project : {}
{
  "{" expression() "}"
}

void selection() : {}
{
    LOOKAHEAD(2) selectAll()
  |
    LOOKAHEAD(2) selectFirst()
  |
    LOOKAHEAD(2) selectLast()
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for which the expression returned true.
*/
void selectAll() #Select : {}
{
  "{" "?" expression() "}"
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for
 the first element for which the expression returned true.
*/
void selectFirst() #SelectFirst : {}
{
  "{" "^" expression() "}"
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
```

```
void selectLast() #SelectLast : {}
{
  "{" "$" expression() "}"
}

void index() #Property : {}
{
  "[" expression() "]" { jjtThis.setIndexedAccess(true); }
|
  <DYNAMIC_SUBSCRIPT> { jjtThis.setValue( token_source.literalValue ); } #Const
  {
     jjtThis.setIndexedAccess(true);
  }
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
  Object literalValue;
    /** Holds the last character escaped or in a character literal. */
  private char charValue;
    /** Holds char literal start token. */
  private char charLiteralStartQuote;
    /** Holds the last string literal parsed. */
  private
 StringBuffer stringBuffer;

    /** Converts an escape sequence into a character value. */
  private char escapeChar()
  {
     int ofs = image.length() - 1;
     switch ( image.charAt(ofs) ) {
        case 'n':   return '\n';
        case 'r':   return '\r';
        case 't':   return '\t';
        case 'b':   return '\b';
        case 'f':   return '\f';
        case '\\':  return '\\';
        case '\'':  return '\'';
        case '\"':  return '\"';
     }

      // Otherwise, it's an octal number.  Find the backslash and convert.
     while ( image.charAt(--ofs) != '\\' )
      {}
     int value = 0;
```

```
    while ( ++ofs < image.length() )
        value = (value << 3) | (image.charAt(ofs) - '0');
    return (char) value;
  }

  private Object makeInt()
  {
    Object  result;
    String  s = image.toString();
    int     base = 10;

    if ( s.charAt(0) == '0' )
      base = (s.length()
> 1 && (s.charAt(1) == 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
      s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
      case 'l': case 'L':
        result = Long.valueOf( s.substring(0,s.length()-1), base );
        break;

      case 'h': case 'H':
        result = new BigInteger( s.substring(0,s.length()-1), base );
        break;

      default:
        result = Integer.valueOf( s, base );
        break;
    }
    return result;
  }

  private Object makeFloat()
  {
    String s = image.toString();
    switch ( s.charAt(s.length()-1) ) {
      case 'f': case 'F':
        return Float.valueOf( s );

      case 'b': case 'B':
        return new BigDecimal( s.substring(0,s.length()-1) );

      case 'd': case 'D':
      default:
        return Double.valueOf( s );

  }
  }
```

```
}

// Whitespace -- ignored
SKIP:
{  " " | "\t" | "\f" | "\r" | "\n" }

// An identifier.
TOKEN:
{
  < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|
  < #LETTER: [
    "\u0024",
    "\u0041"-"\u005a",
    "\u005f",
    "\u0061"-"\u007a",
    "\u00c0"-"\u00d6",
    "\u00d8"-"\u00f6",
    "\u00f8"-"\u00ff",
    "\u0100"-"\u1fff",
    "\u3040"-"\u318f",
    "\u3300"-"\u337f",
    "\u3400"-"\u3d2d",
    "\u4e00"-"\u9fff",
    "\uf900"-"\ufaff"
    ] >
|
  < #DIGIT:
    [
    "\u0030"-"\u0039",
    "\u0660"-"\u0669",
    "\u06f0"-"\u06f9",
    "\u0966"-"\u096f",
    "\u09e6"-"\u09ef",
    "\u0a66"-"\u0a6f",
    "\u0ae6"-"\u0aef",
    "\u0b66"-"\u0b6f",
    "\u0be7"-"\u0bef",
    "\u0c66"-"\u0c6f",
    "\u0ce6"-"\u0cef",
    "\u0d66"-"\u0d6f",
    "\u0e50"-"\u0e59",
    "\u0ed0"-"\u0ed9",
    "\u1040"-"\u1049"
    ] >
}

/**
```

```
* Token for "dynamic subscripts", which are one of: [^], [|], [$],
 and [*].  The
* appropriate constant from the DynamicSubscript class is stored in the token manager's
* "value" field.
*/
TOKEN:
{
  < DYNAMIC_SUBSCRIPT: "[" ["^","|","$","*"] "]" >
    {
      switch (image.charAt(1)) {
        case '^': literalValue = DynamicSubscript.first; break;
        case '|': literalValue = DynamicSubscript.mid;   break;
        case '$': literalValue = DynamicSubscript.last;  break;
        case '*': literalValue = DynamicSubscript.all;   break;
       }
    }
}

/**
* Character and string literals, whose object value is stored in the token manager's
* "literalValue" field.
*/
MORE:
{
  "`"     : WithinBackCharLiteral
|
  "'"     { stringBuffer = new StringBuffer(); }: WithinCharLiteral
|
  "\""    { stringBuffer = new StringBuffer(); }: WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: "\\" ( ["n","r","t","b","f","\\","'","`","\""]
            | (["0"-"3"])? ["0"-"7"] (["0"-"7"])?

          )
  >
    { charValue = escapeChar(); stringBuffer.append(charValue); }
|
  < (~["'","\\"]) >
    { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: "'">
    {
```

```
        if (stringBuffer.length() == 1) {
           literalValue = new Character( charValue );
        } else {
           literalValue = new String( stringBuffer );
        }
     }
     : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
  < BACK_CHAR_ESC: <ESC> >
     { charValue = escapeChar(); }
|
  < (~["`","\\"]) >
     { charValue = image.charAt( image.length()-1 ); }
}

<WithinBackCharLiteral> TOKEN:
{
  < BACK_CHAR_LITERAL: "`">
     { literalValue = new Character( charValue ); }: DEFAULT
}

<WithinStringLiteral> MORE:
{
  < STRING_ESC: <ESC> >
     { stringBuffer.append( escapeChar() ); }
|
  < (~["\"","\\"]) >
     { stringBuffer.append( image.charAt(image.length()-1)
 ); }
}

<WithinStringLiteral> TOKEN:
{
  <STRING_LITERAL: "\"">
     { literalValue = new String( stringBuffer ); }
     : DEFAULT
}

/**
* Integer or real Numeric literal, whose object value is stored in the token manager's
* "literalValue" field.
*/
TOKEN:
{
  < INT_LITERAL:
```

```
    ( "0" (["0"-"7"])* | ["1"-"9"] (["0"-"9"])* | "0" ["x","X"] (["0"-"9","a"-"f","A"-"F"])+ )
    (["l","L","h","H"])?
  >
    { literalValue =
    makeInt(); }
|
  < FLT_LITERAL:
    ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)?
    | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)?
    | <DEC_DIGITS> <FLT_SUFF>
    )
  >
    { literalValue = makeFloat(); }

| < #DEC_FLT: (["0"-"9"])+ "." (["0"-"9"])* | "." (["0"-"9"])+ >
| < #DEC_DIGITS: (["0"-"9"])+ >
| < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
| < #FLT_SUFF: ["d","D","f","F","b","B"] >
}
```

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* /ognl-3-1-29-sources-jar/ognl/package.html
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```
/**
* Thrown during bytecode enhancement conversions of ognl expressions to indicate
* that a certain expression isn't currently supported as a pure java bytecode enhanced
* version.
*
* <p>
*  If this exception is thrown it is expected that ognl will fall back to default ognl
*  evaluation of the expression.
* </p>
*
* @author jkuhnert
*/
```

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* /ognl-3-1-29-sources-jar/ognl/enhance/UnsupportedCompilationException.java
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* /ognl-3-1-29-sources-jar/ognl/ASTRootVarRef.java
* /ognl-3-1-29-sources-jar/ognl/ASTProject.java
* /ognl-3-1-29-sources-jar/ognl/ObjectPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTVarRef.java
* /ognl-3-1-29-sources-jar/ognl/ASTStaticMethod.java
* /ognl-3-1-29-sources-jar/ognl/OgnlRuntime.java
*
 /ognl-3-1-29-sources-jar/ognl/ListPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTList.java
* /ognl-3-1-29-sources-jar/ognl/SimpleNode.java
* /ognl-3-1-29-sources-jar/ognl/ASTCtor.java
* /ognl-3-1-29-sources-jar/ognl/MapPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTProperty.java
* /ognl-3-1-29-sources-jar/ognl/ASTStaticField.java
* /ognl-3-1-29-sources-jar/ognl/ASTChain.java
* /ognl-3-1-29-sources-jar/ognl/ASTThisVarRef.java
* /ognl-3-1-29-sources-jar/ognl/PropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ArrayPropertyAccessor.java
* /ognl-3-1-29-sources-jar/ognl/ASTEval.java
* /ognl-3-1-29-sources-jar/ognl/OgnlOps.java
* /ognl-3-1-29-sources-jar/ognl/ASTConst.java
* /ognl-3-1-29-sources-jar/ognl/ObjectMethodAccessor.java
* /ognl-3-1-29-sources-jar/ognl/Ognl.java
* /ognl-3-1-29-sources-jar/ognl/OgnlContext.java
* /ognl-3-1-29-sources-jar/ognl/ASTSelect.java
* /ognl-3-1-29-sources-jar/ognl/ASTMap.java
No license file was found, but licenses were detected in source scan.

/*@bgen(jjtree) Generated By:JJTree: Do not edit this line. src/java/ognl/ognl.jj */
/*@egen*///--
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//--------------------------------------------------------------------------

/*
* This file defines the syntax of OGNL, the Object-Graph Navigation Language.  This
 * language was devised by Drew Davidson, who called it Key-Value Coding Language.  Luke
* Blanshard then made up the new name and reimplemented it using ANTLR, refining and
* polishing the language a bit on the way.  Drew maintained the system for a couple of
* years; then Luke converted the ANTLR grammar to JavaCC, to eliminate the run-time
* dependency on ANTLR.
*
* See package.html for a description of the language.
*/

options {
    // Parser options
  LOOKAHEAD          = 1;
  STATIC             = false;
  JAVA_UNICODE_ESCAPE = true;
  UNICODE_INPUT      = true;




}

PARSER_BEGIN(OgnlParser)

package ognl;

import java.math.*;
```

```
/**
* OgnlParser is a JavaCC parser class; it translates OGNL expressions into abstract
* syntax trees (ASTs) that can then be interpreted by the getValue and setValue methods.
*/
public class OgnlParser/*@bgen(jjtree)*/implements OgnlParserTreeConstants/*@egen*/
{/*@bgen(jjtree)*/
  protected JJTOgnlParserState jjtree = new JJTOgnlParserState();

/*@egen*/
}

PARSER_END(OgnlParser)




/**
* This is the top-level construct of OGNL.
*/
Node topLevelExpression() : {}
{
  expression() <EOF> { return jjtree.rootNode(); }
}

// sequence (level 14)
void expression() : {}
{
  assignmentExpression() ( ","/*@bgen(jjtree) #Sequence( 2) */
                           {
                            ASTSequence jjtn001 = new ASTSequence(JJTSEQUENCE);
                            boolean jjtc001 = true;
                            jjtree.openNodeScope(jjtn001);
                           }
                           try {
/*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
                           } catch (Throwable jjte001) {
                            if (jjtc001) {
                              jjtree.clearNodeScope(jjtn001);
                              jjtc001 = false;

                            } else {
                              jjtree.popNode();
                            }
                            if (jjte001 instanceof RuntimeException) {
                              throw (RuntimeException)jjte001;
                            }
                            if (jjte001 instanceof ParseException) {
                              throw (ParseException)jjte001;
```

```
                        }
                        throw (Error)jjte001;
                      } finally {
                        if (jjtc001) {
                          jjtree.closeNodeScope(jjtn001,  2);
                        }
                      }
/*@egen*/             )*
}

// assignment expression (level 13)
void assignmentExpression() : {}
{
  conditionalTestExpression() [ "="/*@bgen(jjtree) #Assign( 2) */

  {
                          ASTAssign jjtn001 = new ASTAssign(JJTASSIGN);
                          boolean jjtc001 = true;
                          jjtree.openNodeScope(jjtn001);
                        }
                        try {
/*@egen*/ assignmentExpression()/*@bgen(jjtree)*/
                        } catch (Throwable jjte001) {
                          if (jjtc001) {
                            jjtree.clearNodeScope(jjtn001);
                            jjtc001 = false;
                          } else {
                            jjtree.popNode();
                          }
                          if (jjte001 instanceof RuntimeException) {
                            throw (RuntimeException)jjte001;
                          }

    if (jjte001 instanceof ParseException) {
                            throw (ParseException)jjte001;
                          }
                          throw (Error)jjte001;
                        } finally {
                          if (jjtc001) {
                            jjtree.closeNodeScope(jjtn001,  2);
                          }
                        }
/*@egen*/           ]
}

// conditional test (level 12)
void conditionalTestExpression() : {}
{
```

```
  logicalOrExpression()
    [ "?" conditionalTestExpression() ":"/*@bgen(jjtree) #Test( 3) */
                                    {
                                     ASTTest jjtn001 = new ASTTest(JJTTEST);
                                     boolean jjtc001 = true;
                                     jjtree.openNodeScope(jjtn001);

              }
                                    try {
/*@egen*/ conditionalTestExpression()/*@bgen(jjtree)*/
                                    } catch (Throwable jjte001) {
                                     if (jjtc001) {
                                      jjtree.clearNodeScope(jjtn001);
                                      jjtc001 = false;
                                     } else {
                                      jjtree.popNode();
                                     }
                                     if (jjte001 instanceof RuntimeException) {
                                      throw (RuntimeException)jjte001;
                                     }
                                     if (jjte001 instanceof ParseException) {
                                      throw (ParseException)jjte001;

                        }
                                     throw (Error)jjte001;
                                    } finally {
                                     if (jjtc001) {
                                      jjtree.closeNodeScope(jjtn001,  3);
                                     }
                                    }
/*@egen*/         ]
}

// logical or (||)  (level 11)
void logicalOrExpression() : {}
{
  logicalAndExpression() (("||" | "or")/*@bgen(jjtree) #Or( 2) */
                                   {
                                    ASTOr jjtn001 = new ASTOr(JJTOR);
                                    boolean jjtc001 = true;
                                    jjtree.openNodeScope(jjtn001);
                                   }
                                   try {
/*@egen*/ logicalAndExpression()/*@bgen(jjtree)*/

            } catch (Throwable jjte001) {
                                    if (jjtc001) {
                                     jjtree.clearNodeScope(jjtn001);
```

```
                                  jjtc001 = false;
                                } else {
                                  jjtree.popNode();
                                }
                                if (jjte001 instanceof RuntimeException) {
                                  throw (RuntimeException)jjte001;
                                }
                                if (jjte001 instanceof ParseException) {
                                  throw (ParseException)jjte001;
                                }
                                throw (Error)jjte001;
                              } finally {
                                if (jjtc001)
 {
                                  jjtree.closeNodeScope(jjtn001,  2);
                                }
                              }
/*@egen*/       )*
}


// logical and (&&)  (level 10)
void logicalAndExpression() : {}
{
  inclusiveOrExpression() (("&&" | "and")/*@bgen(jjtree) #And( 2) */
                                {
                                  ASTAnd jjtn001 = new ASTAnd(JJTAND);
                                  boolean jjtc001 = true;
                                  jjtree.openNodeScope(jjtn001);
                                }
                                try {
/*@egen*/ inclusiveOrExpression()/*@bgen(jjtree)*/
                                } catch (Throwable jjte001) {
                                  if (jjtc001) {
                                    jjtree.clearNodeScope(jjtn001);

                        jjtc001 = false;
                                  } else {
                                    jjtree.popNode();
                                  }
                                  if (jjte001 instanceof RuntimeException) {
                                    throw (RuntimeException)jjte001;
                                  }
                                  if (jjte001 instanceof ParseException) {
                                    throw (ParseException)jjte001;
                                  }
                                  throw (Error)jjte001;
                                } finally {
```

```
                                    if (jjtc001) {
                                      jjtree.closeNodeScope(jjtn001,  2);
                                    }

      }
/*@egen*/        )*
}


// bitwise or non-short-circuiting or (|)  (level 9)
void inclusiveOrExpression() : {}
{
  exclusiveOrExpression() (("|" | "bor")/*@bgen(jjtree) #BitOr( 2) */
                                   {
                                    ASTBitOr jjtn001 = new ASTBitOr(JJTBITOR);
                                    boolean jjtc001 = true;
                                    jjtree.openNodeScope(jjtn001);
                                   }
                                   try {
/*@egen*/ exclusiveOrExpression()/*@bgen(jjtree)*/
                                   } catch (Throwable jjte001) {
                                    if (jjtc001) {
                                      jjtree.clearNodeScope(jjtn001);
                                      jjtc001 = false;
                                    } else {
                                      jjtree.popNode();
                                    }
                                    if (jjte001 instanceof RuntimeException) {
                                      throw (RuntimeException)jjte001;
                                    }
                                    if (jjte001 instanceof ParseException) {
                                      throw (ParseException)jjte001;
                                    }
                                    throw (Error)jjte001;
                                   } finally {
                                    if (jjtc001) {
                                      jjtree.closeNodeScope(jjtn001,  2);
                                    }
                                   }
/*@egen*/          )*
}


// exclusive or (^)  (level 8)
void exclusiveOrExpression() : {}
{
  andExpression() (("^" | "xor")/*@bgen(jjtree) #Xor( 2) */
```

```
                        {
                         ASTXor jjtn001 = new ASTXor(JJTXOR);
                         boolean jjtc001 = true;
                         jjtree.openNodeScope(jjtn001);
                        }
                        try {
/*@egen*/ andExpression()/*@bgen(jjtree)*/
                        } catch (Throwable jjte001) {
                         if (jjtc001) {
                           jjtree.clearNodeScope(jjtn001);
                           jjtc001 = false;
                         } else {
                           jjtree.popNode();
                         }
                         if (jjte001 instanceof RuntimeException) {
                           throw (RuntimeException)jjte001;
                         }
                         if (jjte001 instanceof ParseException)
 {
                           throw (ParseException)jjte001;
                         }
                         throw (Error)jjte001;
                        } finally {
                         if (jjtc001) {
                           jjtree.closeNodeScope(jjtn001,  2);
                         }
                        }
/*@egen*/        )*
}


// bitwise or non-short-circuiting and (&)  (level 7)
void andExpression() : {}
{
  equalityExpression() (("&" | "band")/*@bgen(jjtree) #BitAnd( 2) */
                               {
                                 ASTBitAnd jjtn001 = new ASTBitAnd(JJTBITAND);
                                 boolean jjtc001 = true;
                                 jjtree.openNodeScope(jjtn001);
                               }
                               try {
/*@egen*/ equalityExpression()/*@bgen(jjtree)*/
                                } catch (Throwable jjte001) {
                                 if (jjtc001) {
                                   jjtree.clearNodeScope(jjtn001);
                                   jjtc001 = false;
                                 } else {
                                   jjtree.popNode();
```

```
                    }
                    if (jjte001 instanceof RuntimeException) {
                      throw (RuntimeException)jjte001;
                    }
                    if (jjte001 instanceof ParseException) {
                      throw (ParseException)jjte001;
                    }
                    throw (Error)jjte001;
                  } finally {

              if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001,  2);
                    }
                  }
/*@egen*/          )*
}


// equality/inequality (==/!=) (level 6)
void equalityExpression() : {}
{
  relationalExpression()
  (
     ("==" | "eq")/*@bgen(jjtree) #Eq( 2) */
                {
                  ASTEq jjtn001 = new ASTEq(JJTEQ);
                  boolean jjtc001 = true;
                  jjtree.openNodeScope(jjtn001);
                }
                try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte001) {
                  if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                  } else {
                    jjtree.popNode();
                  }
                  if
 (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                  }
                  if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                  }
                  throw (Error)jjte001;
                } finally {
                  if (jjtc001) {
```

```
                    jjtree.closeNodeScope(jjtn001,  2);
                  }
                }
/*@egen*/
   |
      ("!=" | "neq")/*@bgen(jjtree) #NotEq( 2) */
                {
                  ASTNotEq jjtn002 = new ASTNotEq(JJTNOTEQ);
                  boolean jjtc002 = true;
                  jjtree.openNodeScope(jjtn002);
                }
                try {
/*@egen*/ relationalExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte002) {
                  if (jjtc002) {

   jjtree.clearNodeScope(jjtn002);
                    jjtc002 = false;
                  } else {
                    jjtree.popNode();
                  }
                  if (jjte002 instanceof RuntimeException) {
                    throw (RuntimeException)jjte002;
                  }
                  if (jjte002 instanceof ParseException) {
                    throw (ParseException)jjte002;
                  }
                  throw (Error)jjte002;
                } finally {
                  if (jjtc002) {
                    jjtree.closeNodeScope(jjtn002,  2);
                  }
                }
/*@egen*/
   )*
}


// boolean relational expressions (level 5)
void relationalExpression() : {}
{
  shiftExpression()
  (
     ("<" | "lt")/*@bgen(jjtree) #Less( 2) */
                {
                  ASTLess jjtn001 = new ASTLess(JJTLESS);
                  boolean jjtc001 = true;
                  jjtree.openNodeScope(jjtn001);
```

```
                }
                try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte001) {
                  if (jjtc001) {
                    jjtree.clearNodeScope(jjtn001);
                    jjtc001 = false;
                  } else {
                    jjtree.popNode();
                  }
                  if (jjte001 instanceof RuntimeException) {
                    throw (RuntimeException)jjte001;
                  }
                  if (jjte001 instanceof ParseException) {
                    throw (ParseException)jjte001;
                  }
                  throw (Error)jjte001;
                } finally {
                  if (jjtc001) {
                    jjtree.closeNodeScope(jjtn001,  2);
                  }

  }
/*@egen*/
   |
     (">" | "gt")/*@bgen(jjtree) #Greater( 2) */
                {
                  ASTGreater jjtn002 = new ASTGreater(JJTGREATER);
                  boolean jjtc002 = true;
                  jjtree.openNodeScope(jjtn002);
                }
                try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte002) {
                  if (jjtc002) {
                    jjtree.clearNodeScope(jjtn002);
                    jjtc002 = false;
                  } else {
                    jjtree.popNode();
                  }
                  if (jjte002 instanceof RuntimeException) {
                    throw (RuntimeException)jjte002;
                  }
                  if (jjte002 instanceof ParseException) {
                    throw (ParseException)jjte002;
                  }
                  throw (Error)jjte002;
```

```
                } finally {
                 if (jjtc002) {
                   jjtree.closeNodeScope(jjtn002,  2);
                 }
                }
/*@egen*/
   |
      ("<=" | "lte")/*@bgen(jjtree) #LessEq( 2) */
                 {
                   ASTLessEq jjtn003 = new ASTLessEq(JJTLESSEQ);
                   boolean jjtc003 = true;
                   jjtree.openNodeScope(jjtn003);
                 }
                 try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
                 } catch (Throwable jjte003) {
                   if (jjtc003) {
                     jjtree.clearNodeScope(jjtn003);
                     jjtc003 = false;
                   } else {
                     jjtree.popNode();
                   }
                   if (jjte003 instanceof RuntimeException) {
                     throw (RuntimeException)jjte003;

               }
                   if (jjte003 instanceof ParseException) {
                     throw (ParseException)jjte003;
                   }
                   throw (Error)jjte003;
                 } finally {
                   if (jjtc003) {
                     jjtree.closeNodeScope(jjtn003,  2);
                   }
                 }
/*@egen*/
   |
      (">=" | "gte")/*@bgen(jjtree) #GreaterEq( 2) */
                 {
                   ASTGreaterEq jjtn004 = new ASTGreaterEq(JJTGREATEREQ);
                   boolean jjtc004 = true;
                   jjtree.openNodeScope(jjtn004);
                 }
                 try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
                 } catch (Throwable jjte004) {
                   if (jjtc004) {
                     jjtree.clearNodeScope(jjtn004);
```

```
                    jjtc004 = false;

                  } else {
                    jjtree.popNode();
                  }
                  if (jjte004 instanceof RuntimeException) {
                    throw (RuntimeException)jjte004;
                  }
                  if (jjte004 instanceof ParseException) {
                    throw (ParseException)jjte004;
                  }
                  throw (Error)jjte004;
                } finally {
                  if (jjtc004) {
                    jjtree.closeNodeScope(jjtn004,  2);
                  }
                }
/*@egen*/
   |
      "in"/*@bgen(jjtree) #In( 2) */
          {
            ASTIn jjtn005 = new ASTIn(JJTIN);
            boolean jjtc005 = true;
            jjtree.openNodeScope(jjtn005);
          }
          try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
          } catch (Throwable jjte005) {

  if (jjtc005) {
              jjtree.clearNodeScope(jjtn005);
              jjtc005 = false;
            } else {
              jjtree.popNode();
            }
            if (jjte005 instanceof RuntimeException) {
              throw (RuntimeException)jjte005;
            }
            if (jjte005 instanceof ParseException) {
              throw (ParseException)jjte005;
            }
            throw (Error)jjte005;
          } finally {
            if (jjtc005) {
              jjtree.closeNodeScope(jjtn005,  2);
            }
          }
/*@egen*/
```

```
   |
      "not" "in"/*@bgen(jjtree) #NotIn( 2) */
                {
                  ASTNotIn jjtn006 = new ASTNotIn(JJTNOTIN);
                  boolean jjtc006 = true;
                  jjtree.openNodeScope(jjtn006);
                }
                try {
/*@egen*/ shiftExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte006) {

            if (jjtc006) {
                  jjtree.clearNodeScope(jjtn006);
                  jjtc006 = false;
                } else {
                  jjtree.popNode();
                }
                if (jjte006 instanceof RuntimeException) {
                  throw (RuntimeException)jjte006;
                }
                if (jjte006 instanceof ParseException) {
                  throw (ParseException)jjte006;
                }
                throw (Error)jjte006;
              } finally {
                if (jjtc006) {
                  jjtree.closeNodeScope(jjtn006,  2);
                }
              }
/*@egen*/
   )*
}


// bit shift expressions (level 4)
void shiftExpression() : {}
{
  additiveExpression()
  (
      ("<<" | "shl")/*@bgen(jjtree) #ShiftLeft( 2) */
                  {
                    ASTShiftLeft jjtn001 = new ASTShiftLeft(JJTSHIFTLEFT);
                     boolean jjtc001 = true;
                    jjtree.openNodeScope(jjtn001);
                  }
                  try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
                  } catch (Throwable jjte001) {
```

```
                    if (jjtc001) {
                      jjtree.clearNodeScope(jjtn001);
                      jjtc001 = false;
                    } else {
                      jjtree.popNode();
                    }
                    if (jjte001 instanceof RuntimeException) {
                      throw (RuntimeException)jjte001;
                    }
                    if (jjte001 instanceof ParseException) {
                      throw (ParseException)jjte001;
                    }
                    throw (Error)jjte001;
                  } finally {
                    if (jjtc001) {
                      jjtree.closeNodeScope(jjtn001,  2);
                    }
                  }
/*@egen*/
    |
      (">>" | "shr")/*@bgen(jjtree) #ShiftRight( 2) */
                  {
                    ASTShiftRight jjtn002 = new ASTShiftRight(JJTSHIFTRIGHT);
                    boolean jjtc002 = true;
                    jjtree.openNodeScope(jjtn002);
                  }
                  try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
                  } catch (Throwable jjte002) {
                    if (jjtc002) {
                      jjtree.clearNodeScope(jjtn002);
                      jjtc002 = false;
                    } else {
                      jjtree.popNode();
                    }
                    if (jjte002 instanceof RuntimeException) {
                      throw (RuntimeException)jjte002;
                    }
                    if (jjte002 instanceof ParseException) {

      throw (ParseException)jjte002;
                    }
                    throw (Error)jjte002;
                  } finally {
                    if (jjtc002) {
                      jjtree.closeNodeScope(jjtn002,  2);
                    }
                  }
```

```
/*@egen*/
   |
      (">>>" | "ushr")/*@bgen(jjtree) #UnsignedShiftRight( 2) */
                      {
                       ASTUnsignedShiftRight jjtn003 = new ASTUnsignedShiftRight(JJTUNSIGNEDSHIFTRIGHT);
                       boolean jjtc003 = true;
                       jjtree.openNodeScope(jjtn003);
                      }
                      try {
/*@egen*/ additiveExpression()/*@bgen(jjtree)*/
                      } catch (Throwable jjte003) {
                       if (jjtc003) {
                         jjtree.clearNodeScope(jjtn003);
                         jjtc003 = false;
                       } else {

                    jjtree.popNode();
                       }
                       if (jjte003 instanceof RuntimeException) {
                         throw (RuntimeException)jjte003;
                       }
                       if (jjte003 instanceof ParseException) {
                         throw (ParseException)jjte003;
                       }
                       throw (Error)jjte003;
                      } finally {
                       if (jjtc003) {
                         jjtree.closeNodeScope(jjtn003,  2);
                       }
                      }
/*@egen*/
   )*
}


// binary addition/subtraction (level 3)
void additiveExpression() : {}
{
  multiplicativeExpression()
  (
     "+"/*@bgen(jjtree) #Add( 2) */
         {
          ASTAdd jjtn001 = new ASTAdd(JJTADD);
          boolean jjtc001 = true;
          jjtree.openNodeScope(jjtn001);
         }
```

```
  try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
          } catch (Throwable jjte001) {
            if (jjtc001) {
              jjtree.clearNodeScope(jjtn001);
              jjtc001 = false;
            } else {
              jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
              throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
              throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
          } finally {
            if (jjtc001) {
              jjtree.closeNodeScope(jjtn001,  2);
            }
          }
/*@egen*/
    |
      "-"/*@bgen(jjtree) #Subtract( 2) */
          {
            ASTSubtract jjtn002 = new ASTSubtract(JJTSUBTRACT);
            boolean jjtc002 = true;
            jjtree.openNodeScope(jjtn002);
          }
          try {
/*@egen*/ multiplicativeExpression()/*@bgen(jjtree)*/
           } catch (Throwable jjte002) {
            if (jjtc002) {
              jjtree.clearNodeScope(jjtn002);
              jjtc002 = false;
            } else {
              jjtree.popNode();
            }
            if (jjte002 instanceof RuntimeException) {
              throw (RuntimeException)jjte002;
            }
            if (jjte002 instanceof ParseException) {
              throw (ParseException)jjte002;
            }
            throw (Error)jjte002;
          } finally {
            if (jjtc002) {
              jjtree.closeNodeScope(jjtn002,  2);
```

```
          }
        }
/*@egen*/
  )*
}


// multiplication/division/remainder (level 2)
void multiplicativeExpression() : {}
{
  unaryExpression()
  (
    "*"/*@bgen(jjtree) #Multiply( 2) */
        {
         ASTMultiply jjtn001 = new ASTMultiply(JJTMULTIPLY);
         boolean jjtc001 = true;
         jjtree.openNodeScope(jjtn001);
         }
        try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
         if (jjtc001) {
           jjtree.clearNodeScope(jjtn001);
           jjtc001 = false;
         } else {
           jjtree.popNode();
         }
         if (jjte001 instanceof RuntimeException) {
           throw (RuntimeException)jjte001;
         }
         if (jjte001 instanceof ParseException) {
           throw (ParseException)jjte001;
         }
         throw (Error)jjte001;
        } finally {
         if (jjtc001) {
           jjtree.closeNodeScope(jjtn001,  2);
         }
        }
/*@egen*/
   |
    "/"/*@bgen(jjtree) #Divide( 2) */
        {
         ASTDivide jjtn002 = new ASTDivide(JJTDIVIDE);
         boolean jjtc002 = true;
         jjtree.openNodeScope(jjtn002);
        }
        try {
```

```
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
          } catch (Throwable jjte002) {
           if (jjtc002) {
             jjtree.clearNodeScope(jjtn002);
             jjtc002 = false;
           } else {
             jjtree.popNode();
           }
           if (jjte002 instanceof RuntimeException) {
             throw (RuntimeException)jjte002;
           }
           if (jjte002 instanceof ParseException) {
             throw (ParseException)jjte002;
           }
           throw (Error)jjte002;
          } finally {
           if (jjtc002) {
             jjtree.closeNodeScope(jjtn002,  2);
           }
          }
/*@egen*/
   |
      "%"/*@bgen(jjtree) #Remainder( 2) */
          {
           ASTRemainder jjtn003 = new ASTRemainder(JJTREMAINDER);
           boolean jjtc003 = true;
           jjtree.openNodeScope(jjtn003);
          }
          try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
          } catch (Throwable
 jjte003) {
           if (jjtc003) {
             jjtree.clearNodeScope(jjtn003);
             jjtc003 = false;
           } else {
             jjtree.popNode();
           }
           if (jjte003 instanceof RuntimeException) {
             throw (RuntimeException)jjte003;
           }
           if (jjte003 instanceof ParseException) {
             throw (ParseException)jjte003;
           }
           throw (Error)jjte003;
          } finally {
           if (jjtc003) {
             jjtree.closeNodeScope(jjtn003,  2);
```

```
          }
         }
/*@egen*/
  )*
}

// unary (level 1)
void unaryExpression() : {
  StringBuffer sb;
  Token t;
  ASTInstanceof ionode;
}
{
  (
    "-"/*@bgen(jjtree) #Negate( 1) */
        {
          ASTNegate jjtn001 = new ASTNegate(JJTNEGATE);
          boolean jjtc001 = true;
          jjtree.openNodeScope(jjtn001);
        }
        try {
/*@egen*/
 unaryExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
          if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
          } else {
            jjtree.popNode();
          }
          if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
          }
          if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
          }
          throw (Error)jjte001;
        } finally {
          if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  1);
          }
        }
/*@egen*/
  |
    "+" unaryExpression() // Just leave it there
  |
    "~"/*@bgen(jjtree) #BitNegate( 1) */
        {
```

```
          ASTBitNegate jjtn002 = new ASTBitNegate(JJTBITNEGATE);
          boolean jjtc002 = true;
          jjtree.openNodeScope(jjtn002);
         }

 try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
         } catch (Throwable jjte002) {
          if (jjtc002) {
           jjtree.clearNodeScope(jjtn002);
           jjtc002 = false;
          } else {
           jjtree.popNode();
          }
          if (jjte002 instanceof RuntimeException) {
           throw (RuntimeException)jjte002;
          }
          if (jjte002 instanceof ParseException) {
           throw (ParseException)jjte002;
          }
          throw (Error)jjte002;
         } finally {
          if (jjtc002) {
           jjtree.closeNodeScope(jjtn002,  1);
          }
         }
/*@egen*/
    |
      ("!" | "not")/*@bgen(jjtree) #Not( 1) */
                {
                 ASTNot jjtn003 = new ASTNot(JJTNOT);
                 boolean jjtc003 = true;
                 jjtree.openNodeScope(jjtn003);
                }

  try {
/*@egen*/ unaryExpression()/*@bgen(jjtree)*/
                } catch (Throwable jjte003) {
                 if (jjtc003) {
                  jjtree.clearNodeScope(jjtn003);
                  jjtc003 = false;
                 } else {
                  jjtree.popNode();
                 }
                 if (jjte003 instanceof RuntimeException) {
                  throw (RuntimeException)jjte003;
                 }
                 if (jjte003 instanceof ParseException) {
```

```
                    throw (ParseException)jjte003;
                  }
                  throw (Error)jjte003;
                } finally {
                  if (jjtc003) {
                    jjtree.closeNodeScope(jjtn003,  1);
                  }
                }
/*@egen*/
   |
      navigationChain()
      [
         "instanceof"
         t = <IDENT>/*@bgen(jjtree)
 #Instanceof( 1) */
                  {
                    ASTInstanceof jjtn004 = new ASTInstanceof(JJTINSTANCEOF);
                    boolean jjtc004 = true;
                    jjtree.openNodeScope(jjtn004);
                  }
                  try {
/*@egen*//*@bgen(jjtree)*/
                  {
                    jjtree.closeNodeScope(jjtn004,  1);
                    jjtc004 = false;
                  }
/*@egen*/  { sb = new StringBuffer(t.image); ionode = jjtn004; }/*@bgen(jjtree)*/
                  } finally {
                    if (jjtc004) {
                      jjtree.closeNodeScope(jjtn004,  1);
                    }
                  }
/*@egen*/
         (   "." t = <IDENT>         { sb.append('.').append( t.image ); }
         )*                          { ionode.setTargetType( new String(sb) ); }
      ]
   )
}


// navigation chain: property
 references, method calls, projections, selections, etc.
void navigationChain() : {}
{
   primaryExpression()
   (   "."/*@bgen(jjtree) #Chain( 2) */
      {
        ASTChain jjtn001 = new ASTChain(JJTCHAIN);
```

```
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
      }
      try {
/*@egen*/
      ( /* Prevent the "eval" ambiguity from issuing a warning; see discussion below. */
          ( LOOKAHEAD(2) methodCall() | propertyName() )
            // Also handle "{", which requires a lookahead of 2.
      |   ( LOOKAHEAD(2) projection() | selection() )
      |   "(" expression() ")"
      )/*@bgen(jjtree)*/
      } catch (Throwable jjte001) {
        if (jjtc001) {
          jjtree.clearNodeScope(jjtn001);
          jjtc001 = false;
        } else {
          jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
          throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof
 ParseException) {
          throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
      } finally {
        if (jjtc001) {
          jjtree.closeNodeScope(jjtn001,  2);
        }
      }
/*@egen*/

   |/*@bgen(jjtree) #Chain( 2) */
      {
        ASTChain jjtn002 = new ASTChain(JJTCHAIN);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
      }
      try {
/*@egen*/   index()/*@bgen(jjtree)*/
      } catch (Throwable jjte002) {
        if (jjtc002) {
          jjtree.clearNodeScope(jjtn002);
          jjtc002 = false;
        } else {
          jjtree.popNode();
        }
```

```
        if (jjte002 instanceof RuntimeException) {
          throw (RuntimeException)jjte002;
        }
        if (jjte002 instanceof ParseException) {
          throw (ParseException)jjte002;
        }
        throw (Error)jjte002;
      } finally {
        if (jjtc002) {
          jjtree.closeNodeScope(jjtn002,
  2);
        }
      }
/*@egen*/

  |  "(" expression()/*@bgen(jjtree) #Eval( 2) */
                    {
                      ASTEval jjtn003 = new ASTEval(JJTEVAL);
                      boolean jjtc003 = true;
                      jjtree.openNodeScope(jjtn003);
                    }
                    try {
/*@egen*/ ")"/*@bgen(jjtree)*/
                    } finally {
                      if (jjtc003) {
                        jjtree.closeNodeScope(jjtn003,  2);
                      }
                    }
/*@egen*/

          /* Using parentheses to indicate evaluation of the current
             object makes this language ambiguous, because the
             expression "ident(args)" could be seen as a single
             method call or as a property name followed by an
             evaluation.  We always put the method call first and
             turn off the ambiguity warning;
 we always want to
             interpret this as a method call. */

  )*
}


void primaryExpression() : {
  Token   t;
  String  className = null;
}
{
```

```
  (
    (<CHAR_LITERAL> | <BACK_CHAR_LITERAL> | <STRING_LITERAL> | <INT_LITERAL> |
<FLT_LITERAL>)/*@bgen(jjtree) #Const( 0) */
                                {
                                 ASTConst jjtn001 = new ASTConst(JJTCONST);
                                 boolean jjtc001 = true;
                                 jjtree.openNodeScope(jjtn001);
                                }
                                try {
/*@egen*//*@bgen(jjtree)*/
                                {
                                 jjtree.closeNodeScope(jjtn001,  0);
                                 jjtc001 = false;
                                }
/*@egen*/

                            { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
                                } finally {
                                 if (jjtc001) {
                                   jjtree.closeNodeScope(jjtn001,  0);
                                 }
                                }
/*@egen*/
   |
     "true"/*@bgen(jjtree) #Const( 0) */
                                {
                                 ASTConst jjtn002 = new ASTConst(JJTCONST);
                                 boolean jjtc002 = true;
                                 jjtree.openNodeScope(jjtn002);
                                }
                                try {
/*@egen*//*@bgen(jjtree)*/
                                {

                  jjtree.closeNodeScope(jjtn002,  0);
                                 jjtc002 = false;
                                }
/*@egen*/                           { jjtn002.setValue( Boolean.TRUE ); }/*@bgen(jjtree)*/
                                } finally {
                                 if (jjtc002) {
                                   jjtree.closeNodeScope(jjtn002,  0);
                                 }
                                }
/*@egen*/
   |
     "false"/*@bgen(jjtree) #Const( 0) */
                                {
                                 ASTConst jjtn003 = new ASTConst(JJTCONST);
```

```
                                boolean jjtc003 = true;
                                jjtree.openNodeScope(jjtn003);

    }
                               try {
/*@egen*//*@bgen(jjtree)*/
                               {
                                jjtree.closeNodeScope(jjtn003,  0);
                                jjtc003 = false;
                               }
/*@egen*/                         { jjtn003.setValue( Boolean.FALSE ); }/*@bgen(jjtree)*/
                               } finally {
                                if (jjtc003) {
                                 jjtree.closeNodeScope(jjtn003,  0);
                                }
                               }
/*@egen*/
  |/*@bgen(jjtree) #Const( 0) */
    {
     ASTConst jjtn004 = new ASTConst(JJTCONST);
     boolean jjtc004 = true;
     jjtree.openNodeScope(jjtn004);
    }
    try {
/*@egen*/
    "null"/*@bgen(jjtree)*/
     } finally {
     if (jjtc004) {
       jjtree.closeNodeScope(jjtn004,  0);
     }
    }
/*@egen*/                           // Null is the default value in an ASTConst
  |
    LOOKAHEAD(2) "#this"/*@bgen(jjtree) #ThisVarRef( 0) */
                               {
                                ASTThisVarRef jjtn005 = new ASTThisVarRef(JJTTHISVARREF);
                                boolean jjtc005 = true;
                                jjtree.openNodeScope(jjtn005);
                               }
                               try {
/*@egen*//*@bgen(jjtree)*/
                               {
                                jjtree.closeNodeScope(jjtn005,  0);
                                jjtc005 = false;
                               }
/*@egen*/              { jjtn005.setName( "this"
 ); }/*@bgen(jjtree)*/
                               } finally {
```

```
                                if (jjtc005) {
                                  jjtree.closeNodeScope(jjtn005,  0);
                                }
                              }
/*@egen*/
   |
     LOOKAHEAD(2) "#root"/*@bgen(jjtree) #RootVarRef( 0) */
                              {
                                ASTRootVarRef jjtn006 = new ASTRootVarRef(JJTROOTVARREF);
                                boolean jjtc006 = true;
                                jjtree.openNodeScope(jjtn006);
                              }
                              try {
/*@egen*//*@bgen(jjtree)*/
                              {
                                jjtree.closeNodeScope(jjtn006,  0);

                    jjtc006 = false;
                              }
/*@egen*/               { jjtn006.setName( "root" ); }/*@bgen(jjtree)*/
                              } finally {
                                if (jjtc006) {
                                  jjtree.closeNodeScope(jjtn006,  0);
                                }
                              }
/*@egen*/
   |
     LOOKAHEAD(2) "#" t=<IDENT>/*@bgen(jjtree) #VarRef( 0) */
                                {
                                  ASTVarRef jjtn007 = new ASTVarRef(JJTVARREF);
                                  boolean jjtc007 = true;
                                  jjtree.openNodeScope(jjtn007);
                                }
                                try {
/*@egen*//*@bgen(jjtree)*/

                             {
                                  jjtree.closeNodeScope(jjtn007,  0);
                                  jjtc007 = false;
                                }
/*@egen*/             { jjtn007.setName( t.image ); }/*@bgen(jjtree)*/
                                } finally {
                                  if (jjtc007) {
                                    jjtree.closeNodeScope(jjtn007,  0);
                                  }
                                }
/*@egen*/
   |
```

```
    LOOKAHEAD(2) ":" "[" expression() "]"/*@bgen(jjtree) #Const( 1) */
                                 {
                                  ASTConst jjtn008 = new ASTConst(JJTCONST);
                                  boolean jjtc008 = true;

   jjtree.openNodeScope(jjtn008);
                                 }
                                 try {
/*@egen*//*@bgen(jjtree)*/
                                 {
                                  jjtree.closeNodeScope(jjtn008,  1);
                                  jjtc008 = false;
                                 }
/*@egen*/   { jjtn008.setValue( jjtn008.jjtGetChild(0) ); }/*@bgen(jjtree)*/
                                 } finally {
                                  if (jjtc008) {
                                    jjtree.closeNodeScope(jjtn008,  1);
                                  }
                                 }
/*@egen*/
   |
     staticReference()
   |
     LOOKAHEAD(2) constructorCall()
   |
       // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
     ( LOOKAHEAD(2) methodCall() | propertyName() )
   |
     index()
   |
     "(" expression() ")"
   |
     "{"/*@bgen(jjtree) List */
        {
         ASTList jjtn009 = new ASTList(JJTLIST);
         boolean jjtc009 = true;
         jjtree.openNodeScope(jjtn009);
        }
        try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())*]/*@bgen(jjtree)*/
        } catch (Throwable jjte009) {
          if (jjtc009) {
            jjtree.clearNodeScope(jjtn009);
            jjtc009 = false;
          } else {
            jjtree.popNode();
          }
          if (jjte009 instanceof RuntimeException) {
```

```
            throw (RuntimeException)jjte009;
           }
           if (jjte009 instanceof ParseException) {
            throw (ParseException)jjte009;
           }
           throw (Error)jjte009;
          } finally {
           if (jjtc009) {
            jjtree.closeNodeScope(jjtn009,
 true);
           }
          }
/*@egen*/      "}"
   |
      LOOKAHEAD(2)/*@bgen(jjtree) Map */
                 {
                  ASTMap jjtn010 = new ASTMap(JJTMAP);
                  boolean jjtc010 = true;
                  jjtree.openNodeScope(jjtn010);
                 }
                 try {
/*@egen*/ ( "#" (className=classReference())? "{" [keyValueExpression() ("," keyValueExpression())*] {
jjtn010.setClassName(className); } "}" )/*@bgen(jjtree)*/
                 } catch (Throwable jjte010) {
                  if (jjtc010) {
                   jjtree.clearNodeScope(jjtn010);
                   jjtc010 = false;
                  } else {
                   jjtree.popNode();
                  }
                  if (jjte010 instanceof RuntimeException) {
                   throw (RuntimeException)jjte010;
                  }
                  if (jjte010
 instanceof ParseException) {
                   throw (ParseException)jjte010;
                  }
                  throw (Error)jjte010;
                 } finally {
                  if (jjtc010) {
                   jjtree.closeNodeScope(jjtn010, true);
                  }
                 }
/*@egen*/
   )
}

void keyValueExpression() : {}
```

```
{/*@bgen(jjtree) KeyValue */
      {
        ASTKeyValue jjtn001 = new ASTKeyValue(JJTKEYVALUE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
      }
      try {
/*@egen*/
      ( assignmentExpression() (":" assignmentExpression())? )/*@bgen(jjtree)*/
      } catch (Throwable jjte001) {
        if (jjtc001) {
          jjtree.clearNodeScope(jjtn001);
          jjtc001 = false;
        } else {
          jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
          throw (RuntimeException)jjte001;
        }

      if (jjte001 instanceof ParseException) {
          throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
      } finally {
        if (jjtc001) {
          jjtree.closeNodeScope(jjtn001, true);
        }
      }
/*@egen*/
}

void staticReference() : {
  String className = "java.lang.Math";
  Token t;
}
{
  className=classReference()
      ( // Prevent the "eval" ambiguity from issuing a warning; see discussion elsewhere.
          LOOKAHEAD(2)
          staticMethodCall( className )
      |
          t=<IDENT>/*@bgen(jjtree) #StaticField( 0) */
                              {
                                ASTStaticField jjtn001 = new ASTStaticField(JJTSTATICFIELD);
                                boolean jjtc001 = true;
                                jjtree.openNodeScope(jjtn001);
                              }
```

```
                        try {
/*@egen*//*@bgen(jjtree)*/

                    {
                      jjtree.closeNodeScope(jjtn001,  0);
                      jjtc001 = false;
                    }
/*@egen*/           { jjtn001.init( className, t.image ); }/*@bgen(jjtree)*/
                    } finally {
                      if (jjtc001) {
                        jjtree.closeNodeScope(jjtn001,  0);
                      }
                    }
/*@egen*/
    )
}

String classReference(): {
  String     result = "java.lang.Math";
}
{
  "@" ( result=className() )? "@" { return result; }
}

String className(): {
  Token t;
  StringBuffer result;
}
{
  t=<IDENT>             { result = new StringBuffer( t.image ); }
  ( "." t=<IDENT>       { result.append('.').append( t.image ); }
  )*                    { return new String(result); }
}

void constructorCall()      :
 {/*@bgen(jjtree) Ctor */
  ASTCtor jjtn000 = new ASTCtor(JJTCTOR);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
/*@egen*/
  String className;
  Token t;
  StringBuffer sb;
}
{/*@bgen(jjtree) Ctor */
  try {
/*@egen*/
  "new" className=className()
```

```
    (
      LOOKAHEAD(2) (
        "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
          {
           jjtree.closeNodeScope(jjtn000, true);
           jjtc000 = false;
          }
/*@egen*/
          {
            jjtn000.setClassName(className);
          }
      )
      |
      LOOKAHEAD(2) (
        "[" "]" "{"/*@bgen(jjtree) List */
              {
               ASTList jjtn001 = new ASTList(JJTLIST);
               boolean jjtc001 = true;
               jjtree.openNodeScope(jjtn001);

        }
              try {
/*@egen*/ [assignmentExpression() ("," assignmentExpression())*]/*@bgen(jjtree)*/
              } catch (Throwable jjte001) {
               if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
               } else {
                jjtree.popNode();
               }
               if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
               }
               if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
               }
               throw (Error)jjte001;
              } finally {
               if (jjtc001) {
                jjtree.closeNodeScope(jjtn001,
 true);
               }
              }
/*@egen*/      "}"/*@bgen(jjtree)*/
          {
           jjtree.closeNodeScope(jjtn000, true);
           jjtc000 = false;
          }
```

```
/*@egen*/
                {
                   jjtn000.setClassName(className);
                   jjtn000.setArray(true);
                }
          )
          |
          LOOKAHEAD(2) (
             "[" assignmentExpression() "]"/*@bgen(jjtree)*/
                {
                 jjtree.closeNodeScope(jjtn000, true);
                 jjtc000 = false;
                }
/*@egen*/
                {
                   jjtn000.setClassName(className);
                   jjtn000.setArray(true);
                }
          )
       )/*@bgen(jjtree)*/
   } catch (Throwable jjte000) {
     if (jjtc000) {
       jjtree.clearNodeScope(jjtn000);
       jjtc000 = false;

     } else {
       jjtree.popNode();
     }
     if (jjte000 instanceof RuntimeException) {
       throw (RuntimeException)jjte000;
     }
     if (jjte000 instanceof ParseException) {
       throw (ParseException)jjte000;
     }
     throw (Error)jjte000;
   } finally {
     if (jjtc000) {
       jjtree.closeNodeScope(jjtn000, true);
     }
   }
/*@egen*/
}

void propertyName()          : {/*@bgen(jjtree) Property */
   ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
   boolean jjtc000 = true;
   jjtree.openNodeScope(jjtn000);
/*@egen*/
```

```
  Token t;
}
{/*@bgen(jjtree) Property */
  try {
/*@egen*/
  t=<IDENT>/*@bgen(jjtree) Const */
          {
            ASTConst jjtn001 = new ASTConst(JJTCONST);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
          }
          try {
/*@egen*//*@bgen(jjtree)*/
          {
            jjtree.closeNodeScope(jjtn001, true);
            jjtc001 = false;

          }
/*@egen*/ { jjtn001.setValue( t.image ); }/*@bgen(jjtree)*/
          } finally {
            if (jjtc001) {
              jjtree.closeNodeScope(jjtn001, true);
            }
          }
/*@egen*/      /*@bgen(jjtree)*/
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

void staticMethodCall( String className )              : {/*@bgen(jjtree) StaticMethod */
  ASTStaticMethod jjtn000 = new ASTStaticMethod(JJTSTATICMETHOD);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
/*@egen*/
  Token t;
}
{/*@bgen(jjtree) StaticMethod */
  try {
/*@egen*/
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
                                {
                                  jjtree.closeNodeScope(jjtn000, true);
                                  jjtc000 = false;
                                }
```

```
/*@egen*/

                                { jjtn000.init( className, t.image ); }/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

void methodCall()        : {/*@bgen(jjtree) Method */
  ASTMethod jjtn000 = new ASTMethod(JJTMETHOD);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
/*@egen*/
  Token t;
}
{/*@bgen(jjtree) Method */
  try {
/*@egen*/
  t=<IDENT> "(" [ assignmentExpression() ( "," assignmentExpression() )* ] ")"/*@bgen(jjtree)*/
                                {

          jjtree.closeNodeScope(jjtn000, true);
                                  jjtc000 = false;
                                }
/*@egen*/
                                { jjtn000.setMethodName( t.image ); }/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
```

```
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

/**
* Apply an expression to all elements of a collection, creating a new collection
* as the result.
*/
void projection()         : {/*@bgen(jjtree) Project */
 ASTProject jjtn000 = new ASTProject(JJTPROJECT);
 boolean jjtc000 = true;

 jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) Project */
  try {
/*@egen*/
  "{" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
```

```
    }
  }
/*@egen*/
}

void selection() : {}
{
      LOOKAHEAD(2) selectAll()
  |
      LOOKAHEAD(2) selectFirst()
  |
      LOOKAHEAD(2) selectLast()
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for which the expression returned true.
*/
void selectAll()        : {/*@bgen(jjtree) Select */
 ASTSelect
 jjtn000 = new ASTSelect(JJTSELECT);
 boolean jjtc000 = true;
 jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) Select */
  try {
/*@egen*/
  "{" "?" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
```

```
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectFirst()              : {/*@bgen(jjtree) SelectFirst */
 ASTSelectFirst jjtn000 = new ASTSelectFirst(JJTSELECTFIRST);
  boolean jjtc000 = true;
 jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) SelectFirst */
  try {
/*@egen*/
  "{" "^" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

/**
* Apply a boolean expression to all elements of a collection, creating a new collection
* containing those elements for the first element for which the expression returned true.
*/
void selectLast()             : {/*@bgen(jjtree) SelectLast */
 ASTSelectLast jjtn000 = new ASTSelectLast(JJTSELECTLAST);
 boolean
 jjtc000 = true;
 jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) SelectLast */
```

```
  try {
/*@egen*/
  "{" "$" expression() "}"/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

void index()          : {/*@bgen(jjtree) Property */
 ASTProperty jjtn000 = new ASTProperty(JJTPROPERTY);
 boolean jjtc000 = true;
 jjtree.openNodeScope(jjtn000);
/*@egen*/}
{/*@bgen(jjtree) Property */
  try {
/*@egen*/
  "[" expression() "]"/*@bgen(jjtree)*/
                      {
                        jjtree.closeNodeScope(jjtn000,
 true);
                        jjtc000 = false;
                      }
/*@egen*/ { jjtn000.setIndexedAccess(true); }
|
  <DYNAMIC_SUBSCRIPT>/*@bgen(jjtree) Const */
                     {
                      ASTConst jjtn001 = new ASTConst(JJTCONST);
                      boolean jjtc001 = true;
                      jjtree.openNodeScope(jjtn001);
                     }
                     try {
```

```
/*@egen*//*@bgen(jjtree)*/
                    {
                     jjtree.closeNodeScope(jjtn001, true);
                     jjtc001 = false;
                    }
/*@egen*/ { jjtn001.setValue( token_source.literalValue ); }/*@bgen(jjtree)*/
                    } finally {
                     if (jjtc001) {
                       jjtree.closeNodeScope(jjtn001, true);
                     }
                    }
/*@egen*/       /*@bgen(jjtree)*/
  {
    jjtree.closeNodeScope(jjtn000, true);

 jjtc000 = false;
  }
/*@egen*/
  {
     jjtn000.setIndexedAccess(true);
  }/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000, true);
    }
  }
/*@egen*/
}

// LEXER PRODUCTIONS

TOKEN_MGR_DECLS:
{
    /** Holds the last value computed by a constant token. */
```

```
Object literalValue;
  /** Holds the last character escaped or in a character literal. */
private char charValue;
  /** Holds char literal start token. */
private char charLiteralStartQuote;
  /** Holds the last string literal parsed. */
private StringBuffer stringBuffer;

   /** Converts an escape sequence into a character value. */
private char escapeChar()
{
    int ofs = image.length() - 1;
    switch ( image.charAt(ofs) ) {
        case 'n':   return '\n';
        case 'r':   return '\r';
        case 't':   return '\t';
        case 'b':   return '\b';
        case 'f':   return '\f';
        case '\\':  return '\\';
        case '\'':  return '\'';
        case '\"':  return '\"';
    }

     // Otherwise, it's an octal number.  Find the backslash and convert.
    while ( image.charAt(--ofs) != '\\' )
      {}
    int value = 0;
    while ( ++ofs < image.length() )
        value = (value << 3) | (image.charAt(ofs) - '0');
    return (char) value;
}

private Object makeInt()
{
    Object  result;
    String  s = image.toString();
    int     base = 10;

    if ( s.charAt(0) == '0' )
        base = (s.length() > 1 && (s.charAt(1)
== 'x' || s.charAt(1) == 'X'))? 16 : 8;
    if ( base == 16 )
        s = s.substring(2); // Trim the 0x off the front
    switch ( s.charAt(s.length()-1) ) {
        case 'l': case 'L':
            result = Long.valueOf( s.substring(0,s.length()-1), base );
            break;
```

```
        case 'h': case 'H':
            result = new BigInteger( s.substring(0,s.length()-1), base );
            break;

        default:
            result = Integer.valueOf( s, base );
            break;
      }
      return result;
    }

    private Object makeFloat()
    {
      String s = image.toString();
      switch ( s.charAt(s.length()-1) ) {
        case 'f': case 'F':
            return Float.valueOf( s );

        case 'b': case 'B':
            return new BigDecimal( s.substring(0,s.length()-1) );

        case 'd': case 'D':
        default:
            return Double.valueOf( s );
      }
    }
}

// Whitespace
 -- ignored
SKIP:
{  " " | "\t" | "\f" | "\r" | "\n" }

// An identifier.
TOKEN:
{
  < IDENT: <LETTER> (<LETTER>|<DIGIT>)* >
|
  < #LETTER: [
    "$",
    "A"-"Z",
    "_",
    "a"-"z",
    "\u00c0"-"\u00d6",
    "\u00d8"-"\u00f6",
    "\u00f8"-"\u00ff",
    "\u0100"-"\u1fff",
    "\u3040"-"\u318f",
```

```
      "\u3300"-"\u337f",
      "\u3400"-"\u3d2d",
      "\u4e00"-"\u9fff",
      "\uf900"-"\ufaff"
     ] >
|
   < #DIGIT:
     [
      "0"-"9",
      "\u0660"-"\u0669",
      "\u06f0"-"\u06f9",
      "\u0966"-"\u096f",
      "\u09e6"-"\u09ef",
      "\u0a66"-"\u0a6f",
      "\u0ae6"-"\u0aef",
      "\u0b66"-"\u0b6f",
      "\u0be7"-"\u0bef",
      "\u0c66"-"\u0c6f",
      "\u0ce6"-"\u0cef",
      "\u0d66"-"\u0d6f",
      "\u0e50"-"\u0e59",
      "\u0ed0"-"\u0ed9",
      "\u1040"-"\u1049"
     ] >
}

/**
* Token for "dynamic subscripts", which are one of: [^], [|], [$], and [*].  The
* appropriate constant from the DynamicSubscript
 class is stored in the token manager's
* "value" field.
*/
TOKEN:
{
   < DYNAMIC_SUBSCRIPT: "[" ["^","|","$","*"] "]" >
      {
         switch (image.charAt(1)) {
           case '^': literalValue = DynamicSubscript.first; break;
           case '|': literalValue = DynamicSubscript.mid;   break;
           case '$': literalValue = DynamicSubscript.last;  break;
           case '*': literalValue = DynamicSubscript.all;   break;
         }
      }
}

/**
* Character and string literals, whose object value is stored in the token manager's
* "literalValue" field.
```

```
*/
MORE:
{
  "`"     : WithinBackCharLiteral
|
  "'"     { stringBuffer = new StringBuffer(); }: WithinCharLiteral
|
  "\""    { stringBuffer = new StringBuffer(); }: WithinStringLiteral
}

<WithinCharLiteral> MORE:
{
  < ESC: "\\" ( ["n","r","t","b","f","\\","'","`","\""]
            | (["0"-"3"])? ["0"-"7"] (["0"-"7"])?
            )
  >
     { charValue = escapeChar(); stringBuffer.append(charValue);
 }
|
  < (~["'","\\"]) >
     { charValue = image.charAt( image.length()-1 ); stringBuffer.append(charValue); }
}

<WithinCharLiteral> TOKEN:
{
  < CHAR_LITERAL: "'">
     {
        if (stringBuffer.length() == 1) {
           literalValue = new Character( charValue );
        } else {
           literalValue = new String( stringBuffer );
        }
     }
     : DEFAULT
}

<WithinBackCharLiteral> MORE:
{
  < BACK_CHAR_ESC: <ESC> >
     { charValue = escapeChar(); }
|
  < (~["`","\\"]) >
     { charValue = image.charAt( image.length()-1 ); }
}

<WithinBackCharLiteral> TOKEN:
{
  < BACK_CHAR_LITERAL: "`">
```

```
      { literalValue = new Character( charValue ); }: DEFAULT
}

<WithinStringLiteral> MORE:
{
  < STRING_ESC: <ESC> >
     { stringBuffer.append( escapeChar() ); }
|
  < (~["\"","\\"]) >
     { stringBuffer.append( image.charAt(image.length()-1) ); }
}

<WithinStringLiteral> TOKEN:
{
  <STRING_LITERAL:
 "\"">
     { literalValue = new String( stringBuffer ); }
     : DEFAULT
}

/**
* Integer or real Numeric literal, whose object value is stored in the token manager's
* "literalValue" field.
*/
TOKEN:
{
  < INT_LITERAL:
     ( "0" (["0"-"7"])* | ["1"-"9"] (["0"-"9"])* | "0" ["x","X"] (["0"-"9","a"-"f","A"-"F"])+ )
     (["l","L","h","H"])?
  >
     { literalValue =
     makeInt(); }
|
  < FLT_LITERAL:
     ( <DEC_FLT> (<EXPONENT>)? (<FLT_SUFF>)?
     | <DEC_DIGITS> <EXPONENT> (<FLT_SUFF>)?
     | <DEC_DIGITS> <FLT_SUFF>
     )
  >
     { literalValue = makeFloat(); }

| < #DEC_FLT: (["0"-"9"])+ "." (["0"-"9"])* | "." (["0"-"9"])+ >
| < #DEC_DIGITS: (["0"-"9"])+ >
| < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
| < #FLT_SUFF: ["d","D","f","F","b","B"] >
}
```

Found in path(s):

* /ognl-3-1-29-sources-jar/ognl/ognl.jj

1.832 commons-net 3.0.1

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* Change Log:
*
 </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
for reading
* and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.
* Generally things are cleaner. You'll probably have to change some method calls that you were making to support
the
* new options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using
```

* <tt>decode(String s, boolean gzipCompressed)</tt>. Added the ability to "suspend" encoding
in the Output Stream
* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an
XML
* file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP
* streams. Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if
* not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
*
*
*
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* warranties but with plenty of well-wishing
instead! Please visit <a
* href="http://iharder.net/base64">http://iharder.net/base64 periodically to check for updates or to contribute
* improvements.
*
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

Found in path(s):
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/Base64.java
No license file was found, but licenses were detected in source scan.

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* /xmltooling-1-4-4-sources-zip/schema/xenc11-schema.xsd

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```
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```

Found in path(s):

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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/Pair.java
*
 /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/validator/EncryptedTypeSchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/OriginatorKeyInfoMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/XMLObjectChildrenList.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/PublicBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/X509DigestImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/EncryptionPropertyMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/KeyValueBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/criteria/PeerEntityIDCriteria.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/XPathImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/IPAddressHelper.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/EncryptionParameters.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/DSAKeyValue.java
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 /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/CryptoBinaryBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/SPKIDataUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/Seed.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/KeyNameBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/KeyInfoImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/AbstractExtensibleXMLObjectUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/CarriedKeyNameBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/criteria/EvaluableCredentialCriteria.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/CollectionKeyInfoCredentialResolver.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/criteria/KeyLengthCriteria.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/CredentialContext.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/PublicImpl.java
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zip/org/opensaml/xml/security/credential/criteria/EvaluableX509IssuerSerialCredentialCriteria.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/RSAKeyValueBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/validator/KeySizeSchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/AbstractXMLSignatureUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/CipherReference.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/XMLAttributeHelper.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/validator/EncryptionPropertySchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/XSQName.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/SignatureMarshaller.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/AbstractSignableXMLObject.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/SignatureConstants.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/P.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/DatatypeHelper.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/PGPDataMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/ReferenceListUnmarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/KANonceBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/DataReferenceImpl.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/ReferenceType.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/CollectionCredentialResolver.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/PgenCounter.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/validation/ValidatorSuite.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/EncryptionMethodMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/StaticKeyInfoGenerator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/JImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/XSInteger.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/KeyInfoGenerator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509IssuerName.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/validator/DSAKeyValueSchemaValidator.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/EncryptedTypeMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/TransformBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/X509DataBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/InternalX500DNHandler.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSDateTimeImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/X509SerialNumberUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/X509SubjectNameCriteria.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/KeyInfoProvider.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/CarriedKeyName.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/validator/ReferenceListSchemaValidator.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/UsageType.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/InlineEncryptedKeyResolver.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/XSBase64Binary.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/NamedCurveUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/EncryptionProperties.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/AbstractXMLObject.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSAnyMarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/TransformsMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509Certificate.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/trust/ChainingTrustEngine.java
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/xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/DEREncodedKeyValueMarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/XMLEncryptionBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/KeyValue.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/RetrievalMethodImpl.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/XMLObjectHelper.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/J.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/IDIndex.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/PKIXValidationInformation.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/KeyInfoResolutionContext.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/GBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/NamedCurveBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/StaticPKIXValidationInformationResolver.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/EncryptedKeyBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/EncryptedKeyImpl.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/provider/DEREncodedKeyValueProvider.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/ECPointTypeImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/KeyInfoGeneratorManager.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/ModulusImpl.java

* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSBooleanImpl.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/trust/TrustEngine.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/X509IssuerNameBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/PImpl.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/validator/X509DigestSchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSStringMarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/ReferenceListBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/X509DataUnmarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/X509DigestCriteria.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/DocumentInternalIDContentReference.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/DHKeyValueBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/Encrypter.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/X509KeyManagerX509CredentialAdapter.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/TransformsUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/BasicKeyInfoGeneratorFactory.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/DigestMethodImpl.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509SKI.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/keyinfo/KeyInfoGeneratorFactory.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/PGPDataUnmarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/DataReferenceMarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/x509/BasicPKIXValidationInformation.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/validator/AgreementMethodSchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/security/credential/CredentialResolver.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/SeedBuilder.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/TransformUnmarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509CRL.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/KeyInfoReference.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/ElementExtensibleXMLObject.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/ModulusBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSQNameBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/PGPKeyPacket.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/SignatureTrustEngine.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/CarriedKeyNameImpl.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/AbstractWrappedSingletonFactory.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509IssuerSerial.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/XMLObjectBuilderFactory.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/AgreementMethod.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/Public.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/validator/X509DataSchemaValidator.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/util/LazyMap.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/impl/XSURIUnmarshaller.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/MgmtDataBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/X509Data.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/AbstractElementExtensibleXMLObject.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/OAEPparams.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/RecipientKeyInfoBuilder.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/XSURI.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/PGPKeyID.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/schema/validator/XSBase64BinarySchemaValidator.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/EncryptedKey.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/encryption/impl/KeyReferenceMarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/impl/KeyInfoReferenceMarshaller.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/RetrievalMethod.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/signature/Modulus.java
* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/Configuration.java
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* /xmltooling-1-4-4-sources-zip/org/opensaml/xml/io/BaseXMLObjectUnmarshaller.java
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1.836 guice 3.0

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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/Gmail.Users.Settings.Delegates.Delete.html
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/google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/apidocs/com/google/api/services/gmail/Gmail.Users.Messages.GmailImport.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/model/class-use/BatchModifyMessagesRequest.html
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/Gmail.Users.Settings.UpdatePop.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/Gmail.Users.Settings.ForwardingAddresses.List.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/class-use/Gmail.Users.Threads.Untrash.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/apidocs/com/google/api/services/gmail/class-use/Gmail.Users.Settings.SendAs.SmimeInfo.Delete.html
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/google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/class-use/Gmail.Users.Settings.Delegates.Get.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-javadoc-jar/com/google/api/services/gmail/model/WatchResponse.html
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/apidocs/com/google/api/services/gmail/class-use/Gmail.Users.Messages.List.html
No license file was found, but licenses were detected in source scan.

<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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<artifactId>oss-parent</artifactId>
<version>7</version>
</parent>

<groupId>com.google.apis</groupId>
<artifactId>google-api-services-gmail</artifactId>
<version>v1-rev20230612-2.0.0</version>
<name>Gmail API v1-rev20230612-2.0.0</name>
<packaging>jar</packaging>

<inceptionYear>2011</inceptionYear>

<organization>
<name>Google</name>
<url>http://www.google.com/</url>

```
</organization>

<licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

 <distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://google.oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
</distributionManagement>

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      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.9.0</version>
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        <target>1.7</target>
      </configuration>
    </plugin>
    <plugin>
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      <artifactId>nexus-staging-maven-plugin</artifactId>
      <version>1.6.8</version>
      <extensions>true</extensions>
      <configuration>
        <serverId>ossrh</serverId>
        <nexusUrl>https://google.oss.sonatype.org/</nexusUrl>
        <autoReleaseAfterClose>true</autoReleaseAfterClose>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
       <version>2.4</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>3.1.2</version>
      <configuration>
```

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    <archive>
      <manifestEntries>
        <Automatic-Module-Name>com.google.api.services.gmail</Automatic-Module-Name>
      </manifestEntries>
    </archive>
  </configuration>
</plugin>
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  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.0</version>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
  <configuration>
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    <windowtitle>Gmail API ${project.version}</windowtitle>

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      <link>https://googleapis.dev/java/google-http-client/1.43.2/</link>
      <link>https://googleapis.dev/java/google-oauth-client/1.34.1/</link>
      <link>https://googleapis.dev/java/google-api-client/2.2.0/</link>
    </links>
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  <version>2.8</version>
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    <logResults>true</logResults>
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      </goals>
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</plugin>
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    <resource>
      <directory>./resources</directory>
     </resource>
  </resources>
</build>

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    <artifactId>google-api-client</artifactId>
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  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

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    <id>release-sign-artifacts</id>
    <activation>
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        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
    <build>
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          <artifactId>maven-gpg-plugin</artifactId>
          <version>1.6</version>
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              <phase>verify</phase>
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              </goals>
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                  <arg>loopback</arg>
                </gpgArguments>
```

```
            </configuration>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
 </profile>
</profiles>
</project>
```

Found in path(s):
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/target/google-api-services-gmail-v1-rev20230612-2-0-0-jar/META-INF/maven/com.google.apis/google-api-services-gmail/pom.xml
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/GmailScopes.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/BatchModifyMessagesRequest.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/Thread.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/ListCseIdentitiesResponse.java
*
/google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/LanguageSettings.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/ListLabelsResponse.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/ListMessagesResponse.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/BatchDeleteMessagesRequest.java

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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/KaclsKeyMetadata.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/Delegate.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/VacationSettings.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/SendAs.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/ListSendAsResponse.java
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 /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/ModifyThreadRequest.java
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
jar/com/google/api/services/gmail/model/SmimeInfo.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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/google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
jar/com/google/api/services/gmail/model/HistoryLabelAdded.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
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* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-jar/com/google/api/services/gmail/model/Profile.java
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/google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
jar/com/google/api/services/gmail/model/AutoForwarding.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
jar/com/google/api/services/gmail/model/ListHistoryResponse.java
* /google-api-services-gmail-v1-rev20230612-2-0-0-sources-1-
jar/com/google/api/services/gmail/model/LabelColor.java

1.843 apache-jsp 8.5.70

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.844 jersey 1.19

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* /enunciate-jersey-1-19-sources-jar/org/codehaus/enunciate/modules/jersey/config/JerseyRuleSet.java
* /enunciate-jersey-1-19-sources-jar/org/codehaus/enunciate/modules/jersey/JerseyValidator.java
* /enunciate-jersey-1-19-sources-jar/org/codehaus/enunciate/modules/jersey/JerseyDeploymentModule.java

1.845 ehcache 1.7.2

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1.850 jboss-annotations-api-1-3-spec 2.0.1.Final

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Found in path(s):
* /jackson-mapper-asl-1-9-13-sources-2-jar/org/codehaus/jackson/map/MappingJsonFactory.java

1.852 xmlsec 1.2.20-7.el7

1.852.1 Available under license :

xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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http://www.aleksey.com/pipermail/xmlsec/2003/005488.html
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1.853 jersey-common 2.13

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1.855 python-dmidecode 3.10.13

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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.862 saaj-api 1.3.5

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1.864 axiom-api 1.2.21

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1.865 hk2-locator 2.3.0-b05

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1.867 axis2-adb 1.3

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* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Multimaps.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Sets.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Synchronized.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/CompoundOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/NaturalOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ReverseOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingList.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/TreeMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EnumHashBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/LinkedHashMultiset.java
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```
*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
  * following header:
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  */
```

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*/
```

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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ImmutableLongArray.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-30-1-1-android-sources-jar/com/google/common/graph/Traverser.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/BaseGraph.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /guava-30-1-1-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Java8Compatibility.java
*
/guava-30-1-1-android-sources-jar/com/google/common/math/ToDoubleRounder.java
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* /guava-30-1-1-android-sources-jar/com/google/common/base/PatternCompiler.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/CommonPattern.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/CommonMatcher.java
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* /guava-30-1-1-android-sources-jar/com/google/common/hash/MacHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ReaderInputStream.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
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* /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /guava-30-1-1-android-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingNetwork.java

* /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /guava-30-1-1-android-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /guava-30-1-1-android-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ElementOrder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
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* /guava-30-1-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
*
/guava-30-1-1-android-sources-jar/com/google/common/graph/ValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Comparators.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/GraphConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/EndpointPair.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
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/guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
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* /guava-30-1-1-android-sources-jar/com/google/common/graph/Graph.java
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* /guava-30-1-1-android-sources-jar/com/google/common/graph/Graphs.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableGraph.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/Network.java
* /guava-30-1-1-android-sources-jar/com/google/common/graph/MutableNetwork.java
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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>
  */
```

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* /guava-30-1-1-android-sources-jar/com/google/common/base/Strings.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/base/Ascii.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ContiguousSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Monitor.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Equivalence.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedLists.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/annotations/Beta.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/annotations/package-info.java
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* /guava-30-1-1-android-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /guava-30-1-1-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/AppendableWriter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToken.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/escape/CharEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/CaseFormat.java

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*/
/*
  * This following method is a modified version of one found in
  * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
  * which contained the following notice:
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  * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
  */
```

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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
```

* version.
*/

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  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap

class.
*/

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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-30-1-1-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSource.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/CartesianList.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddable.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/BaseEncoding.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteSource.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/ClassPath.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Closer.java
* /guava-30-1-1-android-sources-jar/com/google/common/xml/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
*
/guava-30-1-1-android-sources-jar/com/google/common/math/PairedStats.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Invokable.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/Stats.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Parameter.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Element.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddables.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/FileWriteMode.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/LongAddables.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteSink.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSink.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/LinearTransformation.java
* /guava-30-1-1-android-sources-jar/com/google/common/html/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/LongAddable.java
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* /guava-30-1-1-android-sources-jar/com/google/common/hash/Striped64.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableCollection.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Table.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeBasedTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Platform.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Tables.java
*

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* /guava-30-1-1-android-sources-jar/com/google/common/collect/Collections2.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscriber.java
*
/guava-30-1-1-android-sources-jar/com/google/common/eventbus/Dispatcher.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
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* /guava-30-1-1-android-sources-jar/com/google/common/base/VerifyException.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java
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 /guava-30-1-1-android-sources-jar/com/google/common/base/Verify.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Utf8.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RowSortedTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
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 /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMapDifference.java
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* /guava-30-1-1-android-sources-jar/com/google/common/net/PercentEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Booleans.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Doubles.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/CharMatcher.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Floats.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java

* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Bytes.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/FluentIterable.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Stopwatch.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Shorts.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Ints.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Chars.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/io/MultiReader.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Joiner.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Longs.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/InetAddresses.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/Escaper.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/RangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedIterables.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/GeneralRange.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Count.java
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* /guava-30-1-1-android-sources-jar/com/google/common/base/Preconditions.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Resources.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/base/Suppliers.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Charsets.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LineReader.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CharStreams.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Predicate.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteStreams.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/Primitives.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LineBuffer.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Predicates.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Functions.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/AbstractIterator.java
*
 /guava-30-1-1-android-sources-jar/com/google/common/base/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/HashBiMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReference.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Objects.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Supplier.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/MultiInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Interners.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EnumMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Defaults.java
*

/guava-30-1-1-android-sources-jar/com/google/common/base/Function.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Closeables.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Files.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/EventBus.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CountingOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Throwables.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/CountingInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/Flushables.java
* /guava-30-1-1-android-sources-jar/com/google/common/eventbus/package-info.java
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* /guava-30-1-1-android-sources-jar/com/google/common/cache/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInts.java
*
/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheLoader.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/package-info.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java

* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Funnel.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalNotification.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/TreeRangeSet.java
*
/guava-30-1-1-android-sources-jar/com/google/common/cache/Weigher.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/HostAndPort.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashCode.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/IntMath.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Hashing.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Optional.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/LongMath.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/BoundType.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedLong.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/BloomFilter.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalListeners.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Queues.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/BigIntegerMath.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/HttpHeaders.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Ticker.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashingOutputStream.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/Types.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Funnels.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/PrimitiveSink.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/HashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/DoubleMath.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalListener.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Hasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Enums.java
*
/guava-30-1-1-android-sources-jar/com/google/common/cache/LoadingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Present.java

* /guava-30-1-1-android-sources-jar/com/google/common/math/MathPreconditions.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheStats.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/Cache.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/RemovalCause.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
*
/guava-30-1-1-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Absent.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /guava-30-1-1-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /guava-30-1-1-android-sources-jar/com/google/common/math/DoubleUtils.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeParameter.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
*
/guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/MediaType.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ArrayTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java

*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/DiscreteDomain.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableList.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableAsList.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ComputationException.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ComparisonChain.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/ImmutableTable.java
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* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Splitter.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataInput.java
*
/guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Service.java
* /guava-30-1-1-android-sources-jar/com/google/common/annotations/GwtCompatible.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/Cut.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/Escapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/HostSpecifier.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/LocalCache.java

* /guava-30-1-1-android-sources-jar/com/google/common/io/LineProcessor.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
*
/guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/CacheBuilder.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /guava-30-1-1-android-sources-jar/com/google/common/reflect/TypeResolver.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/MapMaker.java
* /guava-30-1-1-android-sources-jar/com/google/common/cache/ReferenceEntry.java
* /guava-30-1-1-android-sources-jar/com/google/common/net/InternetDomainName.java
* /guava-30-1-1-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/DenseImmutableTable.java
*
/guava-30-1-1-android-sources-jar/com/google/common/net/UrlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/Callables.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/SignedBytes.java
* /guava-30-1-1-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /guava-30-1-1-android-sources-jar/com/google/common/io/ByteProcessor.java
* /guava-30-1-1-android-sources-jar/com/google/common/xml/XmlEscapers.java
* /guava-30-1-1-android-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /guava-30-1-1-android-sources-jar/com/google/common/escape/Platform.java
* /guava-30-1-1-android-sources-jar/com/google/common/base/Platform.java
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* /guava-30-1-1-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
* /guava-30-1-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
*
/guava-30-1-1-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
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/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
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1.871 xerces-j 2.8.1

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1.872 jboss-threads 3.1.0.Final

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1.874 commons-collections 3.2.2

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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Source: http://www.cs.princeton.edu/~appel/modern/java/CUP
Used By: XSLTC component of xml-xalan/java

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1.882 httpcomponents-core 4.4.15

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1.891 jaxb-core 2.3.5

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          <link>http://javadoc.google-http-java-client.googlecode.com/hg/1.25.0</link>

          <link>http://javadoc.google-oauth-java-client.googlecode.com/hg/1.25.0</link>

          <link>http://javadoc.google-api-java-client.googlecode.com/hg/1.25.0</link>
        </links>
      </configuration>
    </plugin>
```

```
  </plugins>
  <sourceDirectory>.</sourceDirectory>
 </build>

 <dependencies>
  <dependency>
   <groupId>com.google.api-client</groupId>
   <artifactId>google-api-client</artifactId>
   <version>1.25.0</version>
  </dependency>
 </dependencies>

 <properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
 </properties>
</project>
```

Found in path(s):
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/pom.xml
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Found in path(s):
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/ImapSettings.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/SmtpMsa.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/MessagePart.java
*
 /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/PopSettings.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Profile.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/History.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/AutoForwarding.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/WatchResponse.java

* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/FilterAction.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListDelegatesResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/SmimeInfo.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Delegate.java
*
/google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/HistoryLabelAdded.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/MessagePartHeader.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListHistoryResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Filter.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/GmailScopes.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/GmailRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
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* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/SendAs.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/VacationSettings.java
*
/google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListSendAsResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/FilterCriteria.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/HistoryMessageAdded.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListThreadsResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/BatchModifyMessagesRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Label.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Draft.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/MessagePartBody.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListMessagesResponse.java
*
/google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/HistoryLabelRemoved.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ModifyMessageRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/HistoryMessageDeleted.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ModifyThreadRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-
jar/com/google/api/services/gmail/model/ListLabelsResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/Gmail.java

* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/WatchRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/ListFiltersResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Thread.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/LabelColor.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/Message.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/ListForwardingAddressesResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/ListSmimeInfoResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/ListDraftsResponse.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/model/BatchDeleteMessagesRequest.java
* /google-api-services-gmail-v1-rev96-1-25-0-sources-1-jar/com/google/api/services/gmail/GmailRequestInitializer.java

1.893 juli 6.0.53

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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/MethodOverride.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/media/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/json/package-info.java
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/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/package-info.java
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* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/apache/v2/GoogleApacheHttpTransport.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/mtls/ContextAwareMetadataJson.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/mtls/MtlsProvider.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/mtls/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/mtls/MtlsUtils.java
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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/NotificationUtils.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/UnparsedNotification.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/media/MediaUploadErrorHandler.java

*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/StoredChannel.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/util/Utils.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/GoogleUtils.java
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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/json/package-info.java
* /google-api-client-2-2-0-sources-1-
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*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/ResourceStates.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/notifications/json/JsonNotificationCallback.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/TypedNotification.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/AbstractNotification.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/notifications/package-info.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/notifications/TypedNotificationCallback.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/notifications/UnparsedNotificationCallback.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/javanet/package-info.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/compute/ComputeCredential.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/notifications/package-info.java
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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/TestUtils.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/testing/auth/oauth2/MockTokenServerTransport.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/auth/oauth2/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/util/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/package-info.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/auth/oauth2/DefaultCredentialProvider.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/OAuth2Utils.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/testing/compute/MockMetadataServerTransport.java
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jar/com/google/api/client/googleapis/services/CommonGoogleClientRequestInitializer.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/services/package-info.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/testing/services/json/MockGoogleJsonClient.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/AbstractGoogleClient.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/services/GoogleClientRequestInitializer.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/testing/services/json/MockGoogleJsonClientRequest.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/testing/services/json/package-info.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/testing/services/MockGoogleClientRequest.java
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jar/com/google/api/client/googleapis/auth/oauth2/GoogleRefreshTokenRequest.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/GoogleClientSecrets.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/json/GoogleJsonError.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/json/GoogleJsonResponseException.java
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* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeTokenRequest.java
* /google-api-client-2-2-0-sources-1-
jar/com/google/api/client/googleapis/media/MediaHttpUploaderProgressListener.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/GoogleCredential.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/media/MediaHttpUploader.java
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jar/com/google/api/client/googleapis/auth/oauth2/GoogleBrowserClientRequestUrl.java
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jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeRequestUrl.java
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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/json/GoogleJsonErrorContainer.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/batch/json/package-info.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/json/package-info.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/GoogleIdToken.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/batch/BatchUnparsedResponse.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/batch/json/JsonBatchCallback.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/media/MediaHttpDownloader.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeFlow.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/json/AbstractGoogleJsonClient.java
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* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/batch/BatchRequest.java
*
/google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/json/CommonGoogleJsonClientRequestInitializer.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/services/json/AbstractGoogleJsonClientRequest.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/auth/oauth2/GoogleIdTokenVerifier.java
* /google-api-client-2-2-0-sources-1-jar/com/google/api/client/googleapis/media/MediaHttpDownloaderProgressListener.java

1.895 jetty-spring 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/JDK14LoggerFactory.java
* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/JDK14LoggerAdapter.java
* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticMDCBinder.java

1.897 neethi 3.2.0

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* /jackson-core-asl-1-9-2-sources-jar/org/codehaus/jackson/Base64Variant.java
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1.909 d-bus 1.10.24-14.el7_8

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1.914 jaxb-api 2.0

1.915 httpcore-nio 4.0-alpha5

1.915.1 Available under license :

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28 16:47:43 +0200 (Thu, 28 Jun 2007) $

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* /httpcore-nio-4-0-alpha5-zip/httpcore-nio 4.0-alpha5/maven/org.apache.httpcomponents/httpcore-nio/pom.xml

1.916 axis2 1.3

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* Original author: Jonathan Colwell
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Found in path(s):
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleListDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/AnyContentType.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/MixedContentType.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleListDeserializer.java
*
/axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleListSerializer.java
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Found in path(s):
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/gen/NoopFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/CommonsHTTPClientProperties.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/VectorSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SourceDataHandlerSerializer.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/handlers/MD5AttachHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/HandlerChainImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/java/Handler.java
* /axis-1-3-sources-2-jar/org/apache/axis/NoEndPointException.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/threadpool/ThreadPool.java
* /axis-1-3-sources-2-jar/org/apache/axis/security/SecurityProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/TimeSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/OctetStreamDataHandlerSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/ArrayUtil.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDOperation.java
* /axis-1-3-sources-2-jar/org/apache/axis/enum/Scope.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/message/CommentImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDComProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/encoding/DefaultXMLEncoder.java
* /axis-1-3-sources-2-jar/org/apache/axis/SOAPPart.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/TypeMappingRegistryImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ConstructorTarget.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/DefaultSOAPEncodingTypeMappingImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/TargetedChain.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/HexDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/java/JavaSender.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/tcpmon.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/CalendarDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/Handler.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaTypeWriter.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaImplWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaBeanFaultWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/MessageEntry.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/HexSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/QSHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDGlobalConfiguration.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/ChunkedOutputStream.java

* /axis-1-3-sources-2-jar/org/apache/axis/components/net/JSSESocketFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/SimpleAxisWorker.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/DimeDelimitedInputStream.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDDeployment.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/Mapping.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/MethodTarget.java
*
/axis-1-3-sources-2-jar/org/apache/axis/HandlerIterationStrategy.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/BaseSerializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/server/AxisServer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/fromJava/Emitter.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDChain.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/CommonsHTTPSender.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaSkelWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/SimpleProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/PortTypeEntry.java
* /axis-1-3-sources-2-jar/org/apache/axis/client/Service.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDTypeMapping.java
* /axis-1-3-sources-2-jar/org/apache/axis/AxisProperties.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/TimeDeserializerFactory.java
*
/axis-1-3-sources-2-jar/org/apache/axis/transport/http/AdminServlet.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/BeanUtils.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/DeserializerTarget.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/ArrayDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/server/DefaultAxisServerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/DirProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/providers/java/CORBAProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/script/BSF.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/DimeTypeNameFormat.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/OctetStreamDataHandlerDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/script/Script.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/Token.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/MapDeserializerFactory.java
*
/axis-1-3-sources-2-jar/org/apache/axis/server/AxisServerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/client/async/AsyncResult.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/HeaderBuilder.java
* /axis-1-3-sources-2-jar/org/apache/axis/client/async/Status.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/encoding/AbstractXMLEncoder.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/QSMethodHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/EnumSerializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDParameter.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/IBMFakeTrustSocketFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/uuid/UUIDGenFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/SourceHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/WSDLUtils.java

* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/VectorSerializerFactory.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/utils/Options.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/OctetStreamDataSource.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/LogMessage.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/NMToken.java
* /axis-1-3-sources-2-jar/org/apache/axis/collections/LRUMap.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/Base64DeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/compiler/Compiler.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SourceDataHandlerDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/Element.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/DOM2Writer.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/ImageDataSource.java
* /axis-1-3-sources-2-jar/org/apache/axis/security/simple/SimpleSecurityProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/enum/Use.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/DefaultEntityResolver.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/providers/java/JavaProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/local/LocalSender.java
* /axis-1-3-sources-2-jar/org/apache/axis/Message.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/DefaultCommonsHTTPClientProperties.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/compiler/AbstractCompiler.java
* /axis-1-3-sources-2-jar/org/apache/axis/enum/Style.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/UnsignedByte.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/MapDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/description/FaultDesc.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/Base64Serializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/Serializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/DefaultHTTPSTransportClientProperties.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/http/HTTPActionHandler.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/attachments/AttachmentsImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/SimpleChain.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/TypeMappingImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/HTTPConstants.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/SunFakeTrustSocketFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/DimeMultiPart.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/ManagedMemoryDataSource.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/bytecode/ParamNameExtractor.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/JettyAxisServer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/Parameters.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/cache/MethodCache.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/PlainTextDataHandlerSerializer.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaEJBProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/SOAPDocumentImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/DateDeserializer.java

* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDUndeployment.java
* /axis-1-3-sources-2-jar/org/apache/axis/security/AuthenticatedUser.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/NullProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/TeeOutputStream.java
* /axis-1-3-sources-2-jar/org/apache/axis/server/ParamList.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/mail/MailTransport.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/UndefinedElement.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/Attachments.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/AbstractQueryStringHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/i18n/MessageBundle.java
*
/axis-1-3-sources-2-jar/org/apache/axis/components/encoding/UTF16Encoder.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/Language.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/DocumentDeserializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/compiler/CompilerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/SOAPBodyElement.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/Token.java
* /axis-1-3-sources-2-jar/org/apache/axis/client/ServiceFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/session/SimpleSession.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/providers/WSDDJavaRMIProvider.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/NormalizedString.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/Parameter.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/Entities.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/uuid/UUIDGen.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/symbolTable/Type.java
*
/axis-1-3-sources-2-jar/org/apache/axis/wsdl/SkeletonImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/schema/SchemaVersion1999.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/DateSerializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/ErrorHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/SOAPFaultCodeBuilder.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/PrefixedQName.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDFaultFlow.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/TextSerializationContext.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/SimpleAuthenticationHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDTransport.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaServiceIfaceWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/SimpleSessionHandler.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/MimeMultipartDataSource.java
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/axis-1-3-sources-2-jar/org/apache/axis/components/encoding/EncodedByteArray.java
* /axis-1-3-sources-2-jar/org/apache/axis/strategies/WSDLGenStrategy.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/NonNegativeInteger.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/IDResolver.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/SocketInputStream.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/StringUtils.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/Base64.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/DimeBodyPart.java

* /axis-1-3-sources-2-jar/org/apache/axis/message/SOAPEnvelope.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/fromJava/Namespaces.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/soap/MustUnderstandChecker.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/CLOption.java
* /axis-1-3-sources-2-jar/org/apache/axis/handlers/LogHandler.java
*
/axis-1-3-sources-2-jar/org/apache/axis/encoding/FieldTarget.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/Skeleton.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/WSDL2Java.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/PlainTextDataSource.java
* /axis-1-3-sources-2-jar/org/apache/axis/attachments/MultiPartDimeInputStream.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/ArrayDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/GeneratedFileInfo.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/encoding/XMLEncoder.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/RPCHeaderParam.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/TypeMappingRegistry.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/local/Handler.java
*
/axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/QNameDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/DefaultJAXRPC11TypeMappingImpl.java
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* /axis-1-3-sources-2-jar/org/apache/axis/types/HexBinary.java
* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaHolderWriter.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleDeserializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/DefaultSocketFactory.java
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* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/AxisServlet.java
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* /axis-1-3-sources-2-jar/org/apache/axis/wsdl/toJava/JavaGeneratorFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/MessageElement.java
* /axis-1-3-sources-2-jar/org/apache/axis/client/AxisClient.java
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* /axis-1-3-sources-2-jar/org/apache/axis/management/ServiceAdmin.java
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* /axis-1-3-sources-2-jar/org/apache/axis/components/net/TransportClientPropertiesFactory.java
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 /axis-1-3-sources-2-jar/org/apache/axis/soap/SOAP11Constants.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/UnsignedIntHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/description/ServiceDesc.java
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* /axis-1-3-sources-2-jar/org/apache/axis/soap/SOAPFactoryImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/EngineConfigurationFactoryFinder.java
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* /axis-1-3-sources-2-jar/org/apache/axis/message/SOAPFaultReasonBuilder.java
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* /axis-1-3-sources-2-jar/org/apache/axis/soap/SOAPConnectionImpl.java
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* /axis-1-3-sources-2-jar/org/apache/axis/soap/SOAPConstants.java
* /axis-1-3-sources-2-jar/org/apache/axis/collections/SequencedHashMap.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/ser/SimpleSerializerFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/MonthDay.java
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* /axis-1-3-sources-2-jar/org/apache/axis/deployment/wsdd/WSDDFault.java
* /axis-1-3-sources-2-jar/org/apache/axis/encoding/SimpleValueSerializer.java
* /axis-1-3-sources-2-jar/org/apache/axis/utils/bytecode/ChainedParamReader.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/UnsignedShortHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/message/Text.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/HexBinaryHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/UnsignedLongHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/ServletEngineConfigurationFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/soap/MessageFactoryImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/DefaultEngineConfigurationFactory.java
* /axis-1-3-sources-2-jar/org/apache/axis/components/net/SocketFactoryFactory.java
*
 /axis-1-3-sources-2-jar/org/apache/axis/holders/OctetStreamHolder.java
* /axis-1-3-sources-2-jar/org/apache/axis/configuration/BasicServerConfig.java
* /axis-1-3-sources-2-jar/org/apache/axis/transport/http/ServletEndpointContextImpl.java
* /axis-1-3-sources-2-jar/org/apache/axis/types/Month.java
* /axis-1-3-sources-2-jar/org/apache/axis/holders/DateHolder.java
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* /axis-1-3-sources-2-jar/org/apache/axis/management/jmx/DeploymentQuery.java
* /axis-1-3-sources-2-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java
*

/axis-1-3-sources-2-jar/org/apache/axis/management/jmx/DeploymentAdministratorMBean.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
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*         Bug 378674 - "The method can be declared as static" is wrong
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*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
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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 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 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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*           bug 292478 - Report potentially null across variable assignment
*           bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
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*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 458396 - NPE in CodeStream.invoke()
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*   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 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 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 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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* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Bug 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
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*        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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
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*   Stephan Herrmann - Contribution for
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
***/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 328281 - visibility leaks not detected when analyzing unused field in private class
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
**********/

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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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*   Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java

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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 367203 - [compiler][null] detect assigning null to nonnull argument
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*         Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*         Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*         Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*         Bug 471611 - Error on hover on call to generic method with null annotation
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*******************************************************************************/
```

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*   Bug 440474 - [null] textual encoding of external null annotations
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```
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********************************************************************************/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.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 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 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/UnionTypeReference.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*   bug 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java
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*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
```

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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.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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 in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java
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*   Stephan Herrmann - Contribution for
*   Bug 428811 - [1.8][compiler] Type witness unnecessarily required
***/

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*   Stephan Herrmann - Contributions for
*   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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/Annotation.java
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across
 loop boundaries
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking

```
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions for
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*******************************************************************************/
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*     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 458396 - NPE in CodeStream.invoke()
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*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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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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*   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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 -

[1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
**********/

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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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* Stephan Herrmann - Contributions for
* bug 335093 - [compiler][null] minimal hook for future null annotation support
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370930 - NonNull annotation not considered for enhanced for loops
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

```
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/
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*       bug 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java
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* Contributors:
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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

Found
 in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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Found in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.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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*     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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java
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*    IBM Corporation - Java 8 support
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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*   daolaf@gmail.com - Contribution for bug 3292227
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365835 - [compiler][null] inconsistent error reporting.
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions
 for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java
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*   Stephan Herrmann - Contribution for
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
***/

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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ***/

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* 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 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 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 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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*    tyeung@bea.com - initial API and implementation
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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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 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
*
**/

Found
 in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java
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* Contributors:
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*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 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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* 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.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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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        bug 404728 - [1.8]NPE on QualifiedSuperReference error
*******************************************************************************/
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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*   het@google.com - Bug 441790
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   bug 407191 - [1.8] Binary access support for type annotations
*   Stephan Herrmann - Contribution for
*   Bug 440474 - [null] textual encoding of external null annotations
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* Contributors:
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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 <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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*   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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
*
/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 364890 - BinaryTypeBinding should use char constants from Util
*   bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 388800 - [1.8][compiler] detect default methods in class files
*   bug 388281 - [compiler][null] inheritance of null annotations as an option

```
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] 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
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.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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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Stephan Herrmann - Contribution for
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
*       Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*       Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is
applicable here"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*       Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda
compatibility constraint
*       Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
```

```
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
```

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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 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 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 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 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 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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*     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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*   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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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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 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 186342 - [compiler][null] Using annotations for null checking
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*         Bug 407191 - [1.8] Binary access support for type annotations
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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 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeElementImpl.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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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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* IBM Corporation - Fix for bug 328575
* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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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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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug
 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*   IBM Corporation - fix for 342598, 382590
*   Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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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
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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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*   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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*     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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*
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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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*   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 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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* IBM Corporation - Java 8 support
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*   Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java

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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 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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*      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 383368 - [compiler][null] syntactic null analysis for field references
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java

* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
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/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
*
/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
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/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
*
/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java

* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 370930 - NonNull annotation not considered for enhanced for loops
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Jesper S Moller - Contribution for

```
*       bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*       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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*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.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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*   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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*     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 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 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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*   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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*    wharley@bea.com - initial API and implementation
*                 (originally in org.eclipse.jdt.apt.core)
*    IBM Corporation - Bug 513790
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*     Stephan Herrmann - Contribution for
*        bug 383368 - [compiler][null] syntactic null analysis for field references
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*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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*   bug 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
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*         NPE with a method with explicit this and a following incomplete parameter
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*          Bug 473178
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*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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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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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 376053 - [compiler][resource] Strange potential resource leak problems
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
*   bug 376590 - Private fields with @Inject are ignored by unused field validation
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   bug 402028 - [1.8][compiler] null analysis for reference expressions
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug
 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*   Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
 from List<Object> to Collection<Object[]>
*   Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
**********/

Found in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.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 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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* Contributors:
*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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```

Found in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
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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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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*   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-3-19-0-sources-1-jar/org/eclipse/jdt/core/compiler/IProblem.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
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*     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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*     Stephan Herrmann - Contributions for
*         bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*         bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*******************************************************************************/
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Found in path(s):
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java
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*     Stephan Herrmann - Contributions for
*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
*******************************************************************************/
```

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* Contributors:
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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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* Contributors:
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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 <stephan@cs.tu-berlin.de> - Contributions for
*           bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 395002 - Self bound generic class
```

doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
* Bug 431408 - Java 8 (1.8) generics bug
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug
438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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*   Frits Jalvingh - fix for bug 533830.
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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 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 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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*   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 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/Literal.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.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 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 - Contribution for bug 188796
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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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*   het@google.com - Bug 441790
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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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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*         Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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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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*         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
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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 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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*   David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*   bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*   bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
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*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
*
/ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 292478 - Report potentially null across variable assignment,
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*   Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 378674 - "The method can be declared as static" is wrong
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*            bug 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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*   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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.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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* Contributors:
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.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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*   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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
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* Contributors:
*   wharley@bea.com - derived base class from BatchMessagerImpl
*
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.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
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*       Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*       Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*       Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*       bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
```

org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416181 - [1.8][compiler][null] Invalid assignment
is not rejected by the compiler
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* bug 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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java

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*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
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*         bug 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 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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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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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
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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 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 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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.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-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.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.
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/CompilationUnitDeclaration.java

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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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*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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*   Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.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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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
*
 /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
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* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /ecj-3-19-0-sources-1-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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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 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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* 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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1.922 jaxb-xjc 1.0.6

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* $Header: /home/cvs/jakarta-commons/discovery/LICENSE.txt,v 1.1 2002/07/25 02:36:45 jvanzyl Exp $
* $Revision: 1.1 $
* $Date: 2002/07/25 02:36:45 $
*
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1.926 ehcache-api 3.9.3

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```

Found in path(s):

* /ehcache-api-3-9-3-sources-jar/org/ehcache/PersistentCacheManager.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/MaintainableService.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/EventType.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/copy/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/SerializerException.java
*
/ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/CacheLoaderWriterConfiguration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/ResourceType.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/CacheIterationException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/UserManagedCache.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/FluentConfigurationBuilder.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/ResourcePools.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/Configuration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/Status.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/EventFiring.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/UnsupportedTypeException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/StateTransitionException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/persistence/StateHolder.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/CacheLoaderWriter.java
*
/ehcache-api-3-9-3-sources-jar/org/ehcache/config/units/MemoryUnit.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/Service.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/ResourcePool.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/Cache.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/ValueSupplier.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/CacheWritingException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/StatefulSerializer.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/expiry/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/BulkCacheLoadingException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/copy/CopyProvider.java
*
/ehcache-api-3-9-3-sources-jar/org/ehcache/spi/persistence/StateRepository.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/Builder.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/persistence/PersistableResourceService.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/SerializationProvider.java
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* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/ResourceUnit.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/resilience/StoreAccessException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/ServiceDependencies.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/CacheManager.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/CachePersistenceException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/BulkCacheWritingException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/persistence/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/CacheRuntimeConfiguration.java
*

/ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/WriteBehindProvider.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/CacheConfiguration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/ServiceCreationConfiguration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/expiry/Duration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/PersistentUserManagedCache.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/EvictionAdvisor.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/OptionalServiceDependencies.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/FluentCacheConfigurationBuilder.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/SizedResourcePool.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/resilience/ResilienceStrategy.java
*
/ehcache-api-3-9-3-sources-jar/org/ehcache/spi/resilience/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/ServiceConfiguration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/CacheLoaderWriterProvider.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/resilience/ResilienceStrategyProvider.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/resilience/RecoveryStore.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/WriteBehindConfiguration.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/serialization/Serializer.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/Eviction.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/EventOrdering.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/units/package-info.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/service/ServiceProvider.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/config/units/EntryUnit.java
*
/ehcache-api-3-9-3-sources-jar/org/ehcache/expiry/ExpiryPolicy.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/expiry/Expirations.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/expiry/Expiry.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/loaderwriter/CacheLoadingException.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/spi/copy/Copier.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/CacheEvent.java
* /ehcache-api-3-9-3-sources-jar/org/ehcache/event/CacheEventListener.java

1.927 elfutils 0.176-2.el7

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1.929 jakarta-regexp 1.4

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1.934 txw2 2.3.5

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* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
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Project: https://maven.apache.org/wagon/
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xz for java (1.8)

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1.935 jersey-apache-client 1.16

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1.941 asm 3.1

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* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierAbstractVisitor.java
*
 /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/Handler.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassReader.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/Remapper.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
 /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/ASMifierClassVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/Label.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/EmptyVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassWriter.java

* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
*
/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
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* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/Method.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
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* /asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
*
 /asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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1.944 axis2-transport-jms 1.7.9

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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/resilience/ThrowingResilienceStrategy.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/OperationObserver.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/CacheEventListenerConfiguration.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/SourceStatistic.java
*
 /ehcache-core-3-9-3-sources-jar/org/ehcache/core/Ehcache.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/config/ExpiryUtils.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/LifeCycled.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/heap/SizeOfEngineProvider.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/events/StoreEvent.java

* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DelegatedMappedOperationStatistics.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/osgi/OsgiServiceLoader.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/tiering/AuthoritativeTier.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DefaultStatisticsServiceFactory.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/package-info.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/util/ByteBufferInputStream.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DelegatingOperationObserver.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/time/TimeSource.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/package-info.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/TierStatistics.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/ZeroOperationStatistic.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/config/store/StoreEventSourceConfiguration.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/heap/package-info.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/osgi/SafeOsgi.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/tiering/HigherCachingTier.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/EhcacheBase.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/WrapperStore.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/time/TimeSourceService.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/events/package-info.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DefaultTierStatistics.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/heap/SizeOfEngine.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/CacheEvents.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/util/CollectionUtil.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/SpecIterator.java
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/ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/util/ValueSuppliers.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/InternalCache.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/Jsr107Cache.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/time/package-info.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/store/StoreConfigurationImpl.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/AbstractWrapperStoreProvider.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/service/FileBasedPersistenceContext.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DelegatingOperationStatistic.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/resilience/DefaultRecoveryStore.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/LowerCachingTierOperationsOutcome.java

* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/CacheConfigurationChangeListener.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/StoreEventDispatcher.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/StatsUtils.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/SuppliedValueStatistic.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/ConfigurationChangeSupport.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/osgi/EhcacheActivator.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/InternalStatus.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/TierOperationOutcomes.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/StatusTransitioner.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/time/SystemTimeSource.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/tiering/CachingTier.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/service/ServiceFactory.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/CacheConfigurationProperty.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/CacheEventDispatcherFactory.java
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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/service/LocalPersistenceService.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/store/heap/LimitExceededException.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/util/ClassLoading.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/StoreOperationOutcomes.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/statistics/OperationStatistic.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/service/DiskResourceService.java

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* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/internal/statistics/DefaultCacheStatistics.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/events/CacheManagerListener.java
* /ehcache-core-3-9-3-sources-jar/org/ehcache/core/spi/service/StatisticsService.java
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1.948 statistics 2.1

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1.951 commons-beanutils 1.9.4

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* /istack-commons-runtime-3-0-7-4-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
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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
Implementation-Version: 3.0.7

Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007

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1.958 jersey-container-servlet 2.13

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1.965 fcgi-server 9.4.48.v20220622

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2

licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.966 slf4j 1.7.22

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*
*/

Found in path(s):
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/Util.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/LoggerFactory.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/MessageFormatter.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/MDC.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/Marker.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/Logger.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/NOPLogger.java
*
/slf4j-api-1-7-22-sources-1-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/NOPMDCAdapter.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/FormattingTuple.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/spi/LocationAwareLogger.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/MarkerFactory.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/IMarkerFactory.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/ILoggerFactory.java

*
/slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-22-sources-1-jar/org/slf4j/helpers/BasicMarkerFactory.java

1.967 jackson-xc 2.9.9

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1.968 woden-api 1.0M9

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.972 openam-audit-context 14.0.0-M6

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1.980 axis2-jaxws-api 1.3

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1.981 commons-logging 1.1

1.982 google-http-client-apache 1.42.3

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Manifest-Version: 1.0
Bundle-Description: Google HTTP Client Library for Java
Automatic-Module-Name: com.google.api.client.http.apache.v2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.http-client.google-http-client-apache-
v2
Bnd-LastModified: 1666902984227
Bundle-ManifestVersion: 2
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: com.google.api.client.http;version="[1.42,2)",com.goog
le.api.client.util;version="[1.42,2)",org.apache.http,org.apache.http
.client,org.apache.http.client.config,org.apache.http.client.methods,
org.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.h
ttp.conn.ssl,org.apache.http.entity,org.apache.http.impl.client,org.a
pache.http.impl.conn
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316

Export-Package: com.google.api.client.http.apache.v2;uses:="com.google
.api.client.http,org.apache.http.client,org.apache.http.impl.client";
version="1.42.3"
Bundle-Name: Apache HTTP transport v2 for the Google HTTP Client Libra
ry for Java.
Bundle-Version: 1.42.3
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-http-client-apache-v2-1-42-3-2-jar/META-INF/MANIFEST.MF

1.983 commons-net 2.0

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Found in path(s):
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/TransportListener.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/ext/BinaryExtension.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/ext/TimestampClientExtension.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/HttpClientTransport.java
*
 /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/MessageClientTransport.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/ext/TimesyncClientExtension.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/LongPollingTransport.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/TransportRegistry.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/transport/ClientTransport.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/BayeuxClient.java
* /cometd-java-client-4-0-7-sources-jar/org/cometd/client/ext/AckExtension.java

1.985 cyrus-sasl 2.1.26-24.el7_9

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1.986 classmate 1.3.1

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1.987 forgerock-guava-concurrent 18.0.4

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1.991 json-smart 2.1.1

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1.992 axiom 1.2.13

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1001 docker 4.2.1

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1.1002 slf4j-log4j 1.7.5

1.1003 xfsprogs 4.5.0-20.el7

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the

terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1008 jaxb-runtime 2.3.5

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

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maven-settings
(3.5.2)

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* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

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testng (6.14.2)

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*
 Project: https://maven.apache.org/wagon/
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* $Revision: 1.2 $
* $Date: 2003/02/02 16:09:53 $
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1.1010 python 2.7.5-88.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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OS-Developed Software
exception.</BLOCKQUOTE></LI>

</OL>

<LI><B>OpenSSL Toolkit License Exception</B>;

<OL TYPE="a">

<LI>Apple Inc. explicitly allows the
compilation
and distribution of the CUPS
software with the OpenSSL Toolkit.</LI>

</OL>

</OL>

<P>No developer is required to provide these exceptions in a
derived work.</P>

<H2 CLASS="title"><A NAME="KERBEROS">Kerberos Support Code</A></H2>

<P>The Kerberos support code ("KSC") is copyright 2006 by Jelmer
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<P>Sources files containing KSC have the following text at the top
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<P>The KSC copyright and license apply <EM>only</EM> to
Kerberos-related feature code in CUPS. Such code is typically

conditionally compiled based on the present of the
<TT>HAVE_GSSAPI</TT> preprocessor definition.</P>

<P>Permission is granted to anyone to use the KSC for any
purpose, including commercial applications,
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 <LI>The origin of the KSC must not be misrepresented; you
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 <LI>This notice may not be removed or altered from any
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</OL>

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<P>Version 2, June 1991

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<OL START="0">

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<OL TYPE="a">

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</OL>

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<OL START="11">

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</PRE>

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<P>If the
 program is interactive, make it output a short notice like this
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
</PRE>

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interest in the program `Gnomovision'
(which
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by James Hacker.

<VAR>signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
</PRE>

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<P>The "Library", below, refers to any such software library or work
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straightforwardly into another language. (Hereinafter, translation is
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<P>"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
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<P>Activities other than copying, distribution and modification are not
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running a program using the Library is not restricted, and output from
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You may modify your copy or copies of the Library or
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<OL TYPE="a">

<LI>The modified work must itself be a software library.

<P>
<LI>You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

<P>
<LI>You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

<P>
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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.

<P>(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.)

</OL>

<P>These requirements apply to the modified work as a whole. If
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entire whole, and thus to each and every part regardless of who wrote
it.

<P>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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<P>In addition, mere aggregation of another work not based on the Library
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medium customarily used for software interchange.

<P>If distribution of object code is made by offering access to copy
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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.

<P>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.)

<P>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.

<P><STRONG>6.</STRONG>
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
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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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<OL TYPE="a">

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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.)

<P>
<LI>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.

<P>
<LI>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.

<P>
<LI>Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

</OL>

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<P>It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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library, 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:

<OL TYPE="a">

 <LI>Accompany
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 facilities. This must be distributed under the terms of the
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 <P>
 <LI>Give prominent notice with the combined library of the fact
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</OL>

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1.1018 asm-analysis 9.3

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1.1023 iconv 2.17

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1.1024 commons-dbcp 1.4

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1.1025 axis2-clustering 1.7.9

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1.1026 assertj-core 2.4.1

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1.1029 mime-pull 1.6

1.1030 axis2-metadata 1.3

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1034 commons-http-client 3.1

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1.1041 xmlschema 1.4.2

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1.1042 gpm 1.20.7-6.el7

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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None

Cryptography

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1.1045 google-oauth-client 1.34.1

1.1045.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Google OAuth Client Library for Java
Bundle-Description: Google OAuth Client Library for Java. Functionalit
y that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client.auth
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.oauth-client
Implementation-Version: 1.34.1
Bnd-LastModified: 1654803126665
Bundle-ManifestVersion: 2
Bundle-RequiredExecutionEnvironment: JavaSE-1.7
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: com.google.api.client.auth.oauth2,com.google.api.clien
t.http;version="[1.42,2)",com.google.api.client.http.javanet;version=
"[1.42,2)",com.google.api.client.json;version="[1.42,2)",com.google.a
pi.client.json.gson,com.google.api.client.json.webtoken;version="[1.4
2,2)",com.google.api.client.util;version="[1.42,2)",com.google.api.cl
ient.util.escape;version="[1.42,2)",com.google.api.client.util.store;
version="[1.42,2)",com.google.common.base;version="[31.1,32)",com.goo
gle.common.cache;version="[31.1,32)",com.google.common.collect;versio
n="[31.1,32)",com.google.common.io;version="[31.1,32)",com.google.com
mon.util.concurrent;version="[31.1,32)",javax.crypto,javax.crypto.spe
c
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.2.0.202202251641
Implementation-Vendor: Google
Export-Package: com.google.api.client.auth.oauth;uses:="com.google.api
.client.http,com.google.api.client.util";version="1.34.1",com.google.
api.client.auth.oauth2;uses:="com.google.api.client.http,com.google.a
pi.client.json,com.google.api.client.util,com.google.api.client.util.
store";version="1.34.1",com.google.api.client.auth.openidconnect;uses
:="com.google.api.client.auth.oauth2,com.google.api.client.http,com.g
oogle.api.client.json,com.google.api.client.json.webtoken,com.google.
api.client.util";version="1.34.1"
Bundle-Name: Google OAuth Client Library for Java
Bundle-Version: 1.34.1
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.6

Found in path(s):
* /google-oauth-client-1-34-1-jar/META-INF/MANIFEST.MF

1.1046 axiom 1.2.5

1.1046.1 Available under license :

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Version 2.0, January 2004

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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.

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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
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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
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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
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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
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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1.1050 rpm 4.11.3-43.el7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1054 pam 1.1.8-23.el7

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  * Major version number.
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  *
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/lang/jpath/expression/LastFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/LessThanOperator.java
*
 /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/RemoveTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/Literal.java
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jar/org/apache/taglibs/standard/lang/jstl/LessThanOrEqualsOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/tag/common/core/OtherwiseTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/lang/jpath/expression/SubstringAfterFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/ParseDateTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/lang/jstl/BeanInfoIndexedProperty.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/lang/jpath/expression/SubtractionOperator.java
*
 /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/TimeZoneTag.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
jar/org/apache/taglibs/standard/lang/jstl/IntegerDivideOperator.java

* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/LessThanOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/SetBundleTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/sql/UpdateTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/extra/spath/Path.java
*
/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/ParseDateSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/ParseNumberTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/UrlTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean2d.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/DeclareTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/PlusOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/UnionOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/sql/SetDataSourceTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/sql/ParamTag.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/NumberLiteral.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/WhenTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/NowFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/fmt/LocalizationContext.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/xml/XPathUtil.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/NotFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/ExpressionUtil.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ContainsFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/TranslateFunction.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/ForTokensSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/CeilingFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/TokenizeFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/ImportTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tei/ForEachTEI.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/UnaryOperatorExpression.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ScopeLimitOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/FormatNumberTag.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/MultiplyOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/StringLiteral.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/core/OutTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/EvaluationTest.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/core/ForEachTag.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/BundleTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/ForTokensTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/example/Person.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/ParamTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tei/DeclareTEI.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
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/taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/ParseDateTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/OrOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tei/Util.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/xml/IfTag.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/FunctionInvocation.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/IfTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/resources/Resources.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/extra/spath/Step.java

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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PublicBean2a.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/MessageTag.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ListLiteral.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ParserTokenManager.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/Convert.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PublicBean1b.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/tlv/ScriptFreeTLV.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/EqualsOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/ExpressionString.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/example/Event.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/SetTimeZoneTag.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ASCII_CharStream.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/fmt/LocaleSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/CollectionAdapter.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/TimeZoneTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/JSPList.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/encoding/HtmlEncoder.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/TokenMgrError.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/RollDateFunction.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/OutSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/DivisionOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/sql/DriverTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/sql/QueryTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/DateFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/sql/ParamTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/core/Config.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/GreaterThanOrEqualsOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/FormatDateSupport.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/ELEvaluator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/ForEachSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/Token.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/core/OutTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean1a.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/PageContextImpl.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/Expression.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean2b.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/sql/TransactionTag.java
*
/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/Bean1.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/SetTimeZoneSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/TimeZoneSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ParseException.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/EvaluationException.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/xml/ExprTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/SetSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/ParamParent.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/Node.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/FormatDateTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/SubstringFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/sql/TransactionTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/Expression.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/ComplexValue.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/ParamSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/AndOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/ConcatFunction.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/xml/TransformSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/MessageSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/core/IfTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/UrlSupport.java

* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/JSPAdapter.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/PropertySuffix.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/ConversionException.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/support/ExpressionEvaluatorManager.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/NotEqualsOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/UnaryOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/BeanInfoManager.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/MultiplicationOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/RequestEncodingTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/BeanInfoProperty.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/DivideOperator.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/BooleanFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/CountFunction.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/xml/ExprSupport.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/core/LoopTag.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/Util.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/UnaryMinusOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/core/UrlTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/example/Family.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/javax/servlet/jsp/jstl/core/LoopTagSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/BinaryOperatorExpression.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/sql/QueryTag.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/BundleTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/NotOperator.java

* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PrivateBean2c.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/core/ParamTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/ELException.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/UserFunction.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/sql/DateParamTagSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/sql/QueryTagSupport.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/rt/fmt/MessageTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/IterationContext.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/JSPDate.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/Constants.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/Bean2Editor.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/el/fmt/ParamTag.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/StaticFunctionTests.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/EmptyOperator.java
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* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/extra/spath/AbsolutePath.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/test/beans/PublicBean1.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tei/ImportTEI.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jstl/RelationalOperator.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/core/ParamSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/tag/common/fmt/FormatNumberSupport.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/Introspectable.java
* /taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/adapter/JSPListIterationContext.java
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/taglibs-standard-18-zip/standard-1-0-6-sources-jar/org/apache/taglibs/standard/lang/jpath/expression/GreaterThanEqualOperator.java
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1.1056 wpa-supplicant 2.6-12.1.el7

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threshold

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That's all there is to it!

1.1061 libdrm 2.4.91-3.el7

1.1062 policycoreutils-python 2.5-33.el7

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1.1066 libcap-ng 0.7.5-4.el7

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1.1067 sjsxp 1.4

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* /jaxp-ri-2-jar/com/sun/org/apache/xerces/internal/impl/msg/XMLSchemaMessages.properties

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VersionMismatch= An entity cannot include another entity of a later version.

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* /jaxp-ri-2-jar/com/sun/org/apache/xerces/internal/impl/msg/XMLMessages.properties

1.1068 nss-pem 1.0.3-7.el7

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1.1069 grizzly-framework 2.1.11

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.eclipse.jetty.toolchain:jetty-schemas

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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1.1081 ipset 7.1-1.el7

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6,
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a) Accompany
the work with the complete corresponding
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1.1082 xml-utils 1.2.21

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1.1084 fast-infoset 1.0.1

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1088 openam-ldap-utils 14.0.0-M6

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1.1091 axis2-xmlbeans 1.7.9

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and server side TLS
1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at http://voxeolabs.com

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Michael Lee <yfl@mira.net> - initial RC6 implementation, MD2 implementation
Nuno Santos <nsantos@student.dei.uc.pt> - finding toString bug in certificate object.
Brett Sealey <bretts@mortbay.com> - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).
Victor A. Salaman <salaman@teknos.com> - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.
Eran Librach <eranl@valicert.com> - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3
and greater).
Jonathan Knudsen <jonathan@LearningPatterns.com> - porting
information and restrictions when using the lightweight library with the
MIDP environment.
Markus Niedermann <markus.niedermann@softwired-inc.com> - porting
information and restrictions when using the lightweight library with the
MIDP environment.
Mike Benham <moxie@thoughtcrime.org> - detection and fixing of an
incorrect weak key in the DES key generation support classes. Suggestions
for simplifying DESedeParameter objects. Optimisations for the Blowfish engine
and BufferedBlockCipher class.
Soren Hilmer <hilmer@mail.tele.dk> - initial implementation of
netscape certificate request classes.
Uwe Guenther <uwe@cscc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
Markus Bradtke <mab@informatik.uni-kiel.de> - fixing of a logic
error in the JDKKeyStore class.
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Sierek <waclaw.sierek@tpg.pl> - fix to setOddParity in
the DESParameter class. Assistance with adding ordering to X509 names for
certificate generation, proper processing of byte strings in the ASN1
package, further simplifications and additional classes to improve pkcs7
support, bug fixes in CertPath API.
Ly-Na Phu <lyna.phu@init-consulting.de> - assistance in the
addition of ISO 9796-1 padding.
Stefan Köpsell <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1
version of the collections API available. For further details see
http://sourceforge.net/projects/jcf/
Carmen Bastiaans <cbastiaa@microbits.com.au> - fixing the improper
null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson <tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber,
CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
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adding IV's to the AESWrap implementations. Initial implementation of
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of the empty DER set in the ASN.1 library.
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Sidney Markowitz <sidney@sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
Chris Kerr <ckerr@filonet.ca> - initial implementation of the cms,
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tagging so tag values up to 30 are now supported.
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Biztalk.
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certificate chaining bug in PKCS12 key store.
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Joel Hockey <joel.hockey@qsipayments.com> - initial work on the openSSL PEM processing.
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in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.
Compliance of KeyUsage extension return value with security API.
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mode to the blockciphers in the provider.
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to the certificate and CRL generators.
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Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.
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in Diffie-Hellman key generation.
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in S/MIME. Header fix for mime messages.
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Johan Seland <johans&#064netfonds.no> - general toString for BigInteger class.
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Joe Cohen <jcohen&#064forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.
Chris Long<aclong&#064ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink<hes&#064izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.
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Justin Kolb <jkolb&#064pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.
Ralf Hauser <ralfhauser&#064gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator.
Michal Dvorak <M_Dvorak&#064kb.cz> - getNextUpdate patch for OCSP SingleResp.
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exception fix for JDK 1.3 CMSSignedData objects.
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Ian Haywood <ian&#064haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
Jonathan Edwards <s34gull&#064mac.com> - initial support for reading multiple rings from a PGP key file.
Andrew Thornton <andrew&#064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.
Gregor Leander <gl&#064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.
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Francois Staes <fstaes&#064netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed content info to CMSSignedDataGenerator, patch to DH key agreement.
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for ElGamal keys. Signature creation time patch for newly created v4 signatures.
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Jun Sun <JSun&#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

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Ville Skyttä <ville.skytta&#064iki.fi> - patch to CRLDistPoint
for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
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Miles Whiteley <Miles.Whiteley&#064savvis.net> - "223" fix for BCPGInputStream new packets.
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Javier Delgadillo <javi&#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala&#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo.
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Rolf Schillinger<rolf&#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin&#064yahoo.com> - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.
Franck Leroy <Franck.Leroy&#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
Atsuhiko Yamanaka <ymnk&#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
Nickolay Bolshackov <tyrex&#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.
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Steve Mitchell <mitchell&#064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
Dirk Eisner <D.Eisner&#064seeburger.de> - initial implementation of ISO 78164-4 padding.

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Tom Pesman <tom&#064tnux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
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Mike Dillon <md5&#064embody.org> - additional checks for PGP secret and public key construction,
patches to copyWithNewPassword.
tu-vi cung <t2cung&#064hotmail.com> - patch for out of bounds problem in getDecoderStream method.
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Remi Blancher <Remi.Blancher&#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
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Andreas Schwier <andreas.schwier&#064cardcontact.de>
- initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
David Josse <david.josse&#064transacttools.net> - Patch for trailer function in version 2 signature packets.
Kishimoto Kazuhiko <kazu-k&#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
Lawrence Tan <lwrnctan&#064gmail.com&gt - Large field OID sample test data. Missing key types in JDKKeyFactory.
Carlos Valiente <superdupont&#064gmail.com> - Addition of CRL writing to the PEMWriter class.
Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
Olaf Keller, <olaf.keller.bc&#064bluewin.ch> - initial implementation of the elliptic curves
over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
Jörg Eichhorn <eichhorn&#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream,

support for F2m compression.
Karsten Ohme <widerstand&#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.
Support for surrogate
pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz <carlos&#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
John Alfred Prufrock <j.a.prufrock&#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
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Pasi Eronen <Pasi.Eronen&#064nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
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Maria Ivanova <maria.ivanova&#064gmail.com> - support for tags > 30 in ASN.1 parsing.
Armin Häberling <arminha&#064student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder <mschilder&#064google.com> - main set of test vectors for Bleichenbacher's forgery attack.
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- general code clean ups.
Erik Tews <e_tews&#064cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
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Frank Cornelis <info&#064frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
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David Stacey <DStacey&#064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
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Michael Samblanet <mike&#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.
Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
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- correction to excluded DN in name constraints processing for PKIX processing.
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Jakub Gwozdz <gwozdziu&#064rpg.pl> - addition of getTsa() to TimeStampTokenInfo.
Bartosz Malkowski <bmalkow&#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.comt> - support for counter signature reading in CMS API, update for multiple counter signature attributes.
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- security manager patch for PKCS1Encoding property check.
Mike StJohns <mstjohns&#064comcast.net> - updates to KeyPurposeId
J Ross Nicoll <jrn&#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
Matthew Stevenson <mavricknz&#064yahoo.com> - patch to construtor for CRMF CertSequence.
Gabriele Contini <gcontini&#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
Roelof Naude <roelof.naude&#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck&#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd&#064lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale&#064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge
and PKCS10CertificationRequest [#BJA-102]
Michael Schoene <michael&#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra&#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns&#064positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer&#064ewe.de> backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.

Robert J. Moore <Robert.J.Moore&#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
Rui Hodai <rui&#064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic&#064mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation
of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson&#064gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal.
Richard Farr <rfarr.se&#064gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione&#064au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani&#064sogei.it> patch for recognising
multiple counter signatures.
Robin Lundgren <r737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil&#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a&#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann&#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom&#064atack.cz> added checking of Sender
header to SignedMailValidator.
Michael <emfau&#064t-online.de> correction of field error in getResponse method in CertRepMessage.
Trevor Perrin <trevor&#064cryptography.com> addition of constant time equals to avoid possible timing attacks.
Markus Kilås <markus&#064primekey.se> several enhancements to TimeStampResponseGenerator.
Dario Novakovic <darionis&#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.
Alex Birkett <alex&#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.
Frank Cornelis <info&#064frankcornelis.be>

additional support classes for CAdES, enhancements to OCSP classes.
Jan Dittberner <jan&#064dittberner.info> addHeader patch for SMIME generator.
Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different content and mgf digests in PSS signing.
Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.
Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.
Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso.massa&#064insiel.it> contributions to CMS time stamp classes.
Giacomo Boccardo <gboccardo&#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
Arnis Tartu <arnis&#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikociski <J.Sikocinski&#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
Juri
Hudolejev <jhudolejev&#064gmail.com> JavaDoc fix to CMSSignedDataParser.
Liane Velten <liane.velten&#064hjp-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden&#064google.com> additional functionality to PGPKeyRing.
Atanas Krachev <akrachev&#064gmail.com> added support for revocation signatures in OpenPGP.
Mickael Laiking <mickael.laiking&#064keynectis.com> initial cut of EAC classes.
Tim Buktu <tbuktu&#064hotmail.com> Initial implementation of NTRU signing and encryption.
Bernd <rbernd&#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
Steing Inge Morisbak <stein.inge.morisbak&#064BEKK.no> Test code for lower case Hex data in PEM headers.
Andreas Schmid <andreas.schmid&#064tngtech.com> Additional expiry time check in PGPPublicKeys.
Phil Steitz <phil.steitz&#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
Ignat
Korchagin <ignat.korchagin&#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
Petar Petrov <p.petrov&#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick <daniel.f.nwr&#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementions of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
Andy Neilson <Andy.Neilson&#064quest.com>a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj&#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CeriticationRequests.
Eleriseth <Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
Kenny Root <kenny&#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV()
patch for AEAD.
Maarten Bodewes <maarten.bodewes&#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b&#064gyahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc&#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel&#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner&#064certimix.com> pointing out isInfinity issue in ECDSASigner

signature verification.
Tim Whittington <Tim.Whittington&#064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation
of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
Marcus Lundblad <marcus.lundblad&#064primekey.se> patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
Andrey Zhozhin <zhozhin&#064xrm.ru> patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d&#064gmail.com> initial cut of DVCS classes.
Damian
Kolasa <fatfredyy&#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes&#064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev&#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome&#064gmail.com> initial implementation of EC keys for OpenpPGP and RFC6637 support.
Matti Aarnio <matti.aarnio&#064methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.
Babak Najafi <bnajafi&#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
Eric Müller <eric.mueller&#064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
Mathias
Herberts <Mathias.Herberts&#064gmail.com> fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov&#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86&#064gmail.com> contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc&#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis&#064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb&#064riseup.net> initial implementation of Shacal2.
Roberto Tyley <> further work on completing gradle build.
Waldemar Dick <wdick&#064devmue.de> code improvement in x500 ASN.1 package.
Sid Steward <sid.steward&#064pdflabs.com> code improvements to ASN1Boolean.
Alex Klyubin <klyubin&#064google.com> AlgorithmParameters check for EC key agreement.
Jonathan Gillett
<gsoc.student&#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter&#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller&#064gmail.com> initial implementation for RFC 5649 key wrap with

padding.
Oliver Ehli<ehli&#064arago.de> Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt&#064cryptovision.com> Initial support for encodable state message digests
Robert Bushman <bouncycastle&#064traxel.com> Clean up of DirectKeySignature example.
Maurice Aarts<aarts&#064riscure.com> updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.
KB Sriram<mail_kb&#064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.
Marco
Schulze<marco&#064nightlabs.de> Reported verification bug in GenericSigner.
Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.
Lijun Liao<&jun.liao&#064gmail.comgt; addition of getSignatureAlgorithmID to BasicOCSPResp.
dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich<tobias.wich&#064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke&#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitza&ltj.kapitza&#064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan&#064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.
nikosn<https://github.com/nikosn>
Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto&#064halicky.sk> Correction to notification/error message handling in SignedMailValidator.
lartiguePierre<https://github.com/lartiguePierre> Fix for counter signature SID in CMSSignedData.
Thomas Belot<thomas.belot+BC&#064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Schürmann<https://github.com/dschuermann>
method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
Michael <MSKnete&#064web.de> initial fix for bitStrength issue for OpenPGP EC keys.
Tobias Wagner <tobias.wagner&#064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro <sgiro&#064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
bschuette<https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
Leonard Dallot<https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys

without passwords originally.
Jan Willem Janssen <j.w.janssen+bouncycastle&#064lxtreme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.
Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.
Kai Kramer <kai.kramer&#064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
Benoit Charles <benoit.charles&#064opentrust.com> Fix for IES data length check on decryption.
Niko <nfink95&#064gmail.com> fix to cast issue in getOutputSize() for ECIES.
akwizgran<https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for varient keys.
Matthias Edelhoff <Matthias.Edelhoff&#064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
Lukasz Deputat <lukasz.deputat&#064gmail.com> Fixed bugs in TlsUtils
read methods [#BJA-592].
Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
André Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
Slawomir Jaranowski<https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.
Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.
William Glanton <wglanton77&#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele <jnaegele@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
Andrew Bonventre<https://github.com/andybons> NullPointer patch for WNafUtil.
The Google Security Team (Project Wycheproof)
<https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.
The Intel Security Team <> analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

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1.1112 libdrm 2.4.97-2.el7

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1.1113 axis2-jws-api 1.3

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1.1114 ehcache-107 3.9.3

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1.1115 javax-persistence-api 2.2

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* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PessimisticLockException.java
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 /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyClass.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/Bindable.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OneToOne.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/CacheRetrieveMode.java
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* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Cache.java
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* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedNativeQueries.java
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* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/LoadState.java
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* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedQuery.java

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1117 pynacl 1.4.0

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1.1118 lm-sensors 3.4.0-8.20160601gitf9185e5.el7

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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

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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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of these things:

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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
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Many improvements to the libsensors configuration file scanner.
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Many optimizations in libsensors and sensors.
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1.1122 commons-http-client 3.0.1

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34 jsdever Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
*
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package org.apache.commons.httpclient;

import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
* Closes an underlying stream as soon as the end of the stream is reached, and
* notifies a client when it has done so.
*
* @author Ortwin Glueck
* @author Eric Johnson
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @since 2.0
*/
class AutoCloseInputStream extends FilterInputStream {

  /**
   * True if this stream is open.  Assume that the underlying stream
   * is open until we get an EOF indication.
   */
  private boolean streamOpen = true;

  /** True if the
 stream closed itself. */
  private boolean selfClosed = false;

  /**
```

```
     * The watcher is notified when the contents of the stream have
     * been  exhausted
     */
    private ResponseConsumedWatcher watcher = null;

    /**
     * Create a new auto closing stream for the provided connection
     *
     * @param in the input stream to read from
     * @param watcher   To be notified when the contents of the stream have been
     *  consumed.
     */
    public AutoCloseInputStream(
            final InputStream in, final ResponseConsumedWatcher watcher) {
        super(in);
        this.watcher = watcher;
    }

    /**
     * Reads the next byte of data from the input stream.
     *
     * @throws IOException when there is an error reading
     * @return the character read, or -1 for EOF
     */
    public int read() throws IOException {
        int l = -1;

        if (isReadAllowed()) {
            // underlying stream not closed, go ahead
and read.
            l = super.read();
            checkClose(l);
        }

        return l;
    }

    /**
     * Reads up to <code>len</code> bytes of data from the stream.
     *
     * @param b a <code>byte</code> array to read data into
     * @param off an offset within the array to store data
     * @param len the maximum number of bytes to read
     * @return the number of bytes read or -1 for EOF
     * @throws IOException if there are errors reading
     */
    public int read(byte[] b, int off, int len) throws IOException {
        int l = -1;
```

```
    if (isReadAllowed()) {
        l = super.read(b,  off,  len);
        checkClose(l);
    }

    return l;
  }

  /**
   * Reads some number of bytes from the input stream and stores them into the
   * buffer array b.
   *
   * @param b a <code>byte</code> array to read data into
   * @return the number of bytes read or -1 for EOF
   * @throws IOException if
there are errors reading
   */
  public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
  }

  /**
   * Close the stream, and also close the underlying stream if it is not
   * already closed.
   * @throws IOException If an IO problem occurs.
   */
  public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
  }

  /**
   * Close the underlying stream should the end of the stream arrive.
   *
   * @param readResult    The result of the read operation to check.
   * @throws IOException If an IO problem occurs.
   */
  private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
```

```
            notifyWatcher();
        }
    }

    /**
     * See whether a read of the underlying stream
  should be allowed, and if
     * not, check to see whether our stream has already been closed!
     *
     * @return <code>true</code> if it is still OK to read from the stream.
     * @throws IOException If an IO problem occurs.
     */
    private boolean isReadAllowed() throws IOException {
        if (!streamOpen && selfClosed) {
            throw new IOException("Attempted read on closed stream.");
        }
        return streamOpen;
    }

    /**
     * Notify the watcher that the contents have been consumed.
     * @throws IOException If an IO problem occurs.
     */
    private void notifyWatcher() throws IOException {
        if (streamOpen) {
            super.close();
            streamOpen = false;

            if (watcher != null) {
                watcher.responseConsumed();
            }
        }
    }
}
```

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1.1123 hawtbuf 1.11

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 /hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/DataByteArrayInputStream.java
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* /hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/ByteArrayOutputStream.java
*
/hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/VarSignedLongCodec.java
* /hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/UTF8Buffer.java
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* /hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/BufferOutputStream.java
* /hawtbuf-1-11-sources-6-jar/org/fusesource/hawtbuf/codec/LongCodec.java

1.1124 tiles-api 3.0.5

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1.1125 javax-websocket-server-impl 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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*
/opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/CredentialContext.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityContextHandler.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/crypto/KeySupport.java
* /opensaml-security-api-3-4-6-sources-
jar/org/opensaml/security/httpclient/HttpClientSecurityConfigurationCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/InternalX500DNHandler.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/X509SubjectKeyIdentifierCriterion.java
* /opensaml-security-api-3-4-6-sources-
jar/org/opensaml/security/messaging/ServletRequestX509CredentialAdapter.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/MutableCredential.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/crypto/JCAConstants.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/package-info.java
*
/opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/httpclient/HttpClientSecuritySupport.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/httpclient/TLSCriteriaSetCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/criteria/KeyLengthCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/criteria/package-info.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/Credential.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/tls/CertificateNameOptions.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/trust/TrustedCredentialTrustEngine.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/trust/TrustEngine.java

* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/PKIXTrustEngine.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/AbstractCredential.java
*
/opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/X509DigestCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/UsageType.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/SecurityException.java
* /opensaml-security-api-3-4-6-sources-
jar/org/opensaml/security/httpclient/HttpClientSecurityParametersResolver.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/crypto/package-info.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/PKIXTrustEvaluator.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/credential/CredentialSupport.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/X509Support.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/criteria/UsageCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/PKIXValidationInformationResolver.java
*
/opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/trust/package-info.java
* /opensaml-security-api-3-4-6-sources-
jar/org/opensaml/security/x509/tls/ClientTLSValidationConfigurationCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/criteria/KeyNameCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/PKIXValidationInformation.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/httpclient/HttpClientSecurityConfiguration.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/X500DNHandler.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/httpclient/package-info.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/criteria/PeerEntityIDCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/x509/X509IssuerSerialCriterion.java
* /opensaml-security-api-3-4-6-sources-jar/org/opensaml/security/crypto/SigningUtil.java

1.1130 jetty-openid 9.4.48.v20220622

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1131 diffutils 3.3-5.el7

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1.1134 http2-hpack 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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1.1138 cffi 1.6.0

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/glob.h
*
 /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/glob.c

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*
* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
* $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
 */
```

Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/ftp_var.h

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*
* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90
* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
 */

Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/pathnames.h
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Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/ftp.c
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Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-
i1Aszbli/netkit-ftp-0.17/ftp/ruserpass.c
*
 /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-
i1Aszbli/netkit-ftp-0.17/ftp/domacro.c
No license file was found, but licenses were detected in source scan.

diff -uNr netkit-ftp-0.17/CVS/Entries netkit-ftp/CVS/Entries
diff -uNr netkit-ftp-0.17/ChangeLog netkit-ftp/ChangeLog
--- netkit-ftp-0.17/ChangeLog Sun Jul 23 04:38:08 2000
+++ netkit-ftp/ChangeLog Tue Nov 28 03:50:10 2000
@@ -1,3 +1,6 @@
+28-Nov-2000:
+ IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+
8-Jul-2000:
 Fix misused printf-function call (not %n-exploitable though).

diff -uNr netkit-ftp-0.17/configure netkit-ftp/configure
--- netkit-ftp-0.17/configure Sat Jul 29 21:00:28 2000
+++ netkit-ftp/configure Sat Jan 27 06:14:54 2001
@@ -24,6 +24,7 @@
   --binmode=mode        Mode for binaries [755]
   --manmode=mode        Mode for manual pages [644]
   --with-c-compiler=cc  Program for compiling C source [guessed]
+  --enable-ipv6         Enable IPv6 support
EOF
 exit 0;;
 --verbose) ;;
@@ -39,6 +40,11 @@
 --manmode=*) MANMODE=`echo $1 | sed 's/^[^=]*=//'` ;;
```

```
 --with-c-compiler=*) CC=`echo
 $1 | sed 's/^[^=]*=//'` ;;
 --without-readline|--disable-readline) WITHOUT_READLINE=1;;
+
+ --disable-ipv6) ENABLE_IPV6=no;;
+ --enable-ipv6=*) ENABLE_IPV6=`echo $1 | sed 's/^[^=]*=//'`;;
+ --enable-ipv6) ENABLE_IPV6=yes;;
+
 *) echo "Unrecognized option: $1"; exit 1;;
esac
shift
@@ -142,6 +148,42 @@

LDFLAGS=
LIBS=
+
+rm -f __conftest*
+
+##################################################
+## Enable IPv6
+echo -n "Whether to enable IPv6 support... "
+if [ x"$ENABLE_IPV6" = x"yes" ]; then
+    echo yes
+    CFLAGS="$CFLAGS -DINET6"
+else
+    echo no
+fi
+
+rm -f __conftest*
+
+## Search IPv6 Library / Headers
+if [ x"$ENABLE_IPV6" = x"yes" ]; then
+    echo -n "Search for IPv6 library... "
+    inet6libdirs="/usr/local/v6/lib /usr/local/lib /usr /usr/inet6/lib"
+    inet6libs="inet6"
+    inet6found=no
+    for inet6libdir in $inet6libdirs; do
+        for inet6lib in $inet6libs; do
+            if [ -d $inet6libdir ] && [ -f $inet6libdir/lib$inet6lib.a ]; then
+
+                inet6found=yes
+                break 2
+            fi
+        done
+    done
+    if [ x"$inet6found" = x"yes" ]; then
+        echo "$inet6libdir/lib$inet6lib.a"
+        LIBS="$LIBS -L$inet6libdir -l$inet6lib"
```

```
+    else
+        echo "not found"
+    fi
+fi

rm -f __conftest*

diff -uNr netkit-ftp-0.17/ftp/CVS/Entries netkit-ftp/ftp/CVS/Entries
--- netkit-ftp-0.17/ftp/CVS/Entries Thu Jan  1 02:00:00 1970
+++ netkit-ftp/ftp/CVS/Entries Mon Feb 19 06:50:49 2001
@@ -0,0 +1,16 @@
+/.cvsignore/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/Makefile/1.4/Sat Jan 27 05:57:08 2001//
+/cmds.c/1.3/Fri Jan 12 21:36:27 2001//
+/cmds.h/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/cmdtab.c/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/domacro.c/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/ftp.1/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/ftp.c/1.11/Sun Feb 11 12:26:59 2001//
+/ftp_var.h/1.3/Fri Jan 12 21:36:27 2001//
+/glob.c/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/glob.h/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/main.c/1.1.1.1/Fri
 Nov  3 19:18:15 2000//
+/netrc.5/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/pathnames.h/1.1.1.1/Fri Nov  3 19:18:15 2000//
+/ruserpass.c/1.1.1.1/Fri Nov  3 19:18:15 2000//
+D
diff -uNr netkit-ftp-0.17/ftp/CVS/Repository netkit-ftp/ftp/CVS/Repository
--- netkit-ftp-0.17/ftp/CVS/Repository Thu Jan  1 02:00:00 1970
+++ netkit-ftp/ftp/CVS/Repository Mon Feb 19 06:50:49 2001
@@ -0,0 +1 @@
+usagi/src/netkit-ftp/ftp
diff -uNr netkit-ftp-0.17/ftp/CVS/Root netkit-ftp/ftp/CVS/Root
--- netkit-ftp-0.17/ftp/CVS/Root Thu Jan  1 02:00:00 1970
+++ netkit-ftp/ftp/CVS/Root Mon Feb 19 06:50:49 2001
@@ -0,0 +1 @@
+:pserver:anoncvs@anoncvs.linux-ipv6.org:/cvsroot/usagi
diff -uNr netkit-ftp-0.17/ftp/Makefile netkit-ftp/ftp/Makefile
--- netkit-ftp-0.17/ftp/Makefile Sun Aug  1 09:00:12 1999
+++ netkit-ftp/ftp/Makefile Sat Jan 27 07:57:08 2001
@@ -16,10 +16,13 @@
cmds.o glob.o: glob.h

install: ftp
+ install -d $(INSTALLROOT)$(BINDIR)
 install -s -m$(BINMODE) ftp $(INSTALLROOT)$(BINDIR)
 ln -sf ftp $(INSTALLROOT)$(BINDIR)/pftp
```

```
+ install
 -d $(INSTALLROOT)$(MANDIR)/man1
 install -m$(MANMODE) ftp.1 $(INSTALLROOT)$(MANDIR)/man1
 ln -sf ftp.1 $(INSTALLROOT)$(MANDIR)/man1/pftp.1
+ install -d $(INSTALLROOT)$(MANDIR)/man5
 install -m$(MANMODE) netrc.5 $(INSTALLROOT)$(MANDIR)/man5

clean:
diff -uNr netkit-ftp-0.17/ftp/cmds.c netkit-ftp/ftp/cmds.c
--- netkit-ftp-0.17/ftp/cmds.c Sun Jul 23 04:36:59 2000
+++ netkit-ftp/ftp/cmds.c Fri Jan 12 23:36:27 2001
@@ -1,3 +1,5 @@
+/* $USAGI$ */
+
/*
 * Copyright (c) 1985, 1989 Regents of the University of California.
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@@ -35,7 +37,7 @@
 * from: @(#)cmds.c 5.26 (Berkeley) 3/5/91
 */
char cmds_rcsid[] =
-   "$Id: cmds.c,v 1.33 2000/07/23 01:36:59 dholland Exp $";
+   "$Id: cmds.c,v 1.3 2001/01/12 21:36:27 sekiya Exp $";

/*
 * FTP User Program -- Command Routines.
@@ -190,7 +192,7 @@
setpeer(int argc, char *argv[])
{
 char *host;
- unsigned short port;
+ char *port;

 if (connected) {
  printf("Already connected to %s, use
 close first.\n",
@@ -205,22 +207,17 @@
  code = -1;
  return;
 }
- port = ftp_port;
+ port = NULL;
 if (argc > 2) {
-  port = atoi(argv[2]);
-  if (port < 1) {
-   printf("%s: bad port number-- %s\n", argv[1], argv[2]);
-   printf ("usage: %s host-name [port]\n", argv[0]);
-   code = -1;
```

```
-   return;
-  }
-  port = htons(port);
+  port = argv[2];
  }
 host = hookup(argv[1], port);
 if (host) {
  int overbose;

  connected = 1;
+  try_epsv = 1;
+  try_eprt = 1;
  /*
   * Set up defaults for FTP.
   */
diff -uNr netkit-ftp-0.17/ftp/cmdtab.c netkit-ftp/ftp/cmdtab.c
--- netkit-ftp-0.17/ftp/cmdtab.c Tue Sep 28 18:36:05 1999
+++ netkit-ftp/ftp/cmdtab.c Fri Nov  3 21:18:15 2000
@@ -35,7 +35,7 @@
 * from: @(#)cmdtab.c 5.10 (Berkeley) 6/1/90
 */
char cmdtab_rcsid[] =
-  "$Id: cmdtab.c,v 1.8 1999/09/28 15:36:05 dholland Exp $";
+  "$Id: cmdtab.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

#include <string.h>   /* for NULL */
#include "ftp_var.h"
diff -uNr netkit-ftp-0.17/ftp/domacro.c
 netkit-ftp/ftp/domacro.c
--- netkit-ftp-0.17/ftp/domacro.c Thu Aug 15 02:27:28 1996
+++ netkit-ftp/ftp/domacro.c Fri Nov  3 21:18:15 2000
@@ -35,7 +35,7 @@
 * from: @(#)domacro.c 1.8 (Berkeley) 9/28/90
 */
char domacro_rcsid[] =
-  "$Id: domacro.c,v 1.4 1996/08/14 23:27:28 dholland Exp $";
+  "$Id: domacro.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

#include <errno.h>
#include <ctype.h>
diff -uNr netkit-ftp-0.17/ftp/ftp.1 netkit-ftp/ftp/ftp.1
--- netkit-ftp-0.17/ftp/ftp.1 Mon Jul 31 02:56:59 2000
+++ netkit-ftp/ftp/ftp.1 Fri Nov  3 21:18:15 2000
@@ -30,7 +30,7 @@
.\" SUCH DAMAGE.
.\"
.\" from: @(#)ftp.1 6.18 (Berkeley) 7/30/91
-.\" $Id: ftp.1,v 1.14 2000/07/30 23:56:59 dholland Exp $
```

```
+.\" $Id: ftp.1,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $
.\"
.Dd August 15, 1999
.Dt FTP 1
diff -uNr netkit-ftp-0.17/ftp/ftp.c netkit-ftp/ftp/ftp.c
--- netkit-ftp-0.17/ftp/ftp.c Mon Dec 13 22:33:20 1999
+++ netkit-ftp/ftp/ftp.c Sun Feb 11 14:26:59 2001
@@ -1,3 +1,34 @@
+/* $USAGI$ */
+
+/*
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+ */
+
 /*
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@@ -35,7 +66,7 @@
  * From: @(#)ftp.c 5.38 (Berkeley) 4/22/91
  */
 char ftp_rcsid[] =
```

```
-  "$Id: ftp.c,v 1.25 1999/12/13 20:33:20 dholland Exp $";
+  "$Id: ftp.c,v 1.11 2001/02/11 12:26:59 yoshfuji Exp $";

#include <sys/param.h>
#include <sys/stat.h>
@@ -63,14 +94,38 @@
#include "ftp_var.h"
#include
 "cmds.h"

+#ifdef _USAGI
+#include "version.h"
+#else
#include "../version.h"
+#endif
+
+union sockunion {
+ struct sockinet {
+  u_short si_family;
+  u_short si_port;
+ } su_si;
+ struct sockaddr  su_sa;
+ struct sockaddr_in    su_sin;
+#ifdef INET6
+ struct sockaddr_in6   su_sin6;
+#endif
+};
+#define su_family su_sa.sa_family
+#define su_port  su_si.si_port
+
+#ifdef INET6
+#define ex_af2prot(a) (a == AF_INET ? 1 : (a == AF_INET6 ? 2 : 0))
+#else
+#define ex_af2prot(a) (a == AF_INET ? 1 : 0)
+#endif

int data = -1;
off_t restart_point = 0;

-static struct sockaddr_in hisctladdr;
-static struct sockaddr_in data_addr;
-static struct sockaddr_in myctladdr;
+static union sockunion hisctladdr;
+static union sockunion data_addr;
+static union sockunion myctladdr;
static int ptflag = 0;
static sigjmp_buf recvabort;
static sigjmp_buf sendabort;
```

```
@@ -96,79 +151,119 @@
static FILE *dataconn(const char *);

char *
-hookup(char *host, int port)
+hookup(const char *host, const char *port)
 {
- register struct hostent *hp = 0;
- int s, tos;
+ int s, tos, error;
 socklen_t len;
 static char hostnamebuf[256];
-
+ struct addrinfo hints, *res, *res0;
+ char hbuf[MAXHOSTNAMELEN], pbuf[NI_MAXSERV];
+ char *cause = "ftp: unknown";
+
+ if (port) {
+  strncpy(pbuf, port, sizeof(pbuf) - 1);
+  pbuf[sizeof(pbuf) - 1] = '\0';
+ } else {
+  sprintf(pbuf, "%d", ntohs(ftp_port));
+ }
 memset(&hisctladdr, 0, sizeof(hisctladdr));
- if (inet_aton(host, &hisctladdr.sin_addr)) {
-  hisctladdr.sin_family = AF_INET;
-  strncpy(hostnamebuf, host, sizeof(hostnamebuf));
-  hostnamebuf[sizeof(hostnamebuf)-1]=0;
- }
- else {
-  hp = gethostbyname(host);
-  if (hp == NULL) {
-   fprintf(stderr, "ftp: %s: ", host);
-   herror((char *)NULL);
-   code = -1;
-   return((char *) 0);
+ memset(&hints, 0, sizeof(hints));
+ hints.ai_flags = AI_CANONNAME;
+ hints.ai_socktype = SOCK_STREAM;
+ error = getaddrinfo(host, pbuf, &hints, &res0);
+ if (error) {
+  if (port) {
+   strcpy(hbuf, " ");
+  } else
+ {
+   hbuf[0] = '\0';
+   pbuf[0] = '\0';
   }
```

```
-  hisctladdr.sin_family = hp->h_addrtype;
-  if (hp->h_length > (int)sizeof(hisctladdr.sin_addr)) {
-   hp->h_length = sizeof(hisctladdr.sin_addr);
-  }
-  memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0], hp->h_length);
-  (void) strncpy(hostnamebuf, hp->h_name, sizeof(hostnamebuf));
-  hostnamebuf[sizeof(hostnamebuf)-1] = 0;
- }
- hostname = hostnamebuf;
- s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
- if (s < 0) {
-  perror("ftp: socket");
+  fprintf(stderr, "ftp: %s%s%s: %s\n", host, hbuf, pbuf,
+      gai_strerror(error));
  code = -1;
  return (0);
 }
- hisctladdr.sin_port = port;
- while (connect(s, (struct sockaddr *)&hisctladdr, sizeof (hisctladdr)) < 0) {
-  if (hp && hp->h_addr_list[1]) {
-   int oerrno = errno;
-
-   fprintf(stderr, "ftp: connect to address %s: ",
-    inet_ntoa(hisctladdr.sin_addr));
-   errno = oerrno;
-   perror((char *) 0);
-   hp->h_addr_list++;
-   memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0],

-          hp->h_length);
-   fprintf(stdout, "Trying %s...\n",
-    inet_ntoa(hisctladdr.sin_addr));
-   (void) close(s);
-   s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
-   if (s < 0) {
-    perror("ftp: socket");
-    code = -1;
-    return (0);
+
+ if (res0->ai_canonname) {
+  struct addrinfo h, *a;
+  memset(&h, 0, sizeof(h));
+  h.ai_family = PF_UNSPEC;
+  h.ai_socktype = SOCK_STREAM;
+  h.ai_flags = AI_NUMERICHOST;
+  if (!getaddrinfo(res0->ai_canonname, NULL, &h, &a)) {
+   strncpy(hostnamebuf, res0->ai_canonname, sizeof(hostnamebuf));
+   freeaddrinfo(a);
```

```
+  } else
+   strncpy(hostnamebuf, host, sizeof(hostnamebuf));
+ }
+ else
+  strncpy(hostnamebuf, host, sizeof(hostnamebuf));
+ hostnamebuf[sizeof(hostnamebuf) - 1] = '\0';
+ hostname = hostnamebuf;
+
+ s = -1;
+ for (res = res0; res; res = res->ai_next) {
+  if (!ex_af2prot(res->ai_family)) {
+   cause = "ftp: mismatch address family";
+   errno = EPROTONOSUPPORT;
+   continue;
+  }
+  if ((size_t)res->ai_addrlen
 > sizeof(hisctladdr)) {
+   cause = "ftp: mismatch struct sockaddr size";
+   errno = EPROTO;
+   continue;
+  }
+  if (getnameinfo(res->ai_addr, res->ai_addrlen,
+    hbuf, sizeof(hbuf), NULL, 0,
+    NI_NUMERICHOST))
+   strcpy(hbuf, "???");
+  if (res0->ai_next) /* if we have multiple possibilities */
+   fprintf(stdout, "Trying %s...\n", hbuf);
+  s = socket(res->ai_family, res->ai_socktype, res->ai_protocol);
+  if (s < 0) {
+   cause = "ftp: socket";
+   continue;
+  }
+  while ((error = connect(s, res->ai_addr, res->ai_addrlen)) < 0
+    && errno == EINTR) {
+   ;
+  }
+  if (error) {
+   /* this "if" clause is to prevent print warning twice */
+   if (res->ai_next) {
+    fprintf(stderr,
+     "ftp: connect to address %s", hbuf);
+    perror("");
   }
+   cause = "ftp: connect";
+   close(s);
+   s = -1;
  continue;
 }
```

```
-  perror("ftp: connect");
+  /* finally we got one */
+  break;
+ }
+ if (s < 0) {
+  perror(cause);
   code = -1;
-  goto bad;
+  freeaddrinfo(res0);
+  return
  NULL;
  }
- len = sizeof (myctladdr);
+ len = res->ai_addrlen;
+ memcpy(&hisctladdr, res->ai_addr, len);
+ freeaddrinfo(res0);
  if (getsockname(s, (struct sockaddr *)&myctladdr, &len) < 0) {
   perror("ftp: getsockname");
   code = -1;
   goto bad;
  }
#ifdef IP_TOS
+ if (hisctladdr.su_family == AF_INET)
+ {
  tos = IPTOS_LOWDELAY;
  if (setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
   perror("ftp: setsockopt TOS (ignored)");
+ }
#endif
 cin = fdopen(s, "r");
 cout = fdopen(s, "w");
@@ -182,7 +277,7 @@
   goto bad;
  }
  if (verbose)
-  printf("Connected to %s.\n", hostname);
+  printf("Connected to %s (%s).\n", hostname, hbuf);
  if (getreply(0) > 2) {  /* read startup message from server */
   if (cin)
    (void) fclose(cin);
@@ -392,8 +487,10 @@
    }
    if (dig < 4 && isdigit(c))
     code = code * 10 + (c - '0');
-   if (!pflag && code == 227)
+   if (!pflag && (code == 227 || code == 228))
     pflag = 1;
+   else if (!pflag && code == 229)
```

```
+    pflag
 = 100;
   if (dig > 4 && pflag == 1 && isdigit(c))
    pflag = 2;
   if (pflag == 2) {
@@ -405,6 +502,8 @@
     pflag = 3;
    }
   }
+   if (pflag == 100 && c == '(')
+    pflag = 2;
   if (dig == 4 && c == '-') {
    if (continuation)
     code = 0;
@@ -1083,15 +1182,25 @@
static int
initconn(void)
{
- register char *p, *a;
+ u_char *p, *a;
 int result, tmpno = 0;
 socklen_t len;
 int on = 1;
- int tos;
- u_long a1,a2,a3,a4,p1,p2;
-
+ int tos, error = 0;
+ u_int ad[16], po[2], af, alen, plen;
+ char *pasvcmd = NULL;
+ char hbuf[MAXHOSTNAMELEN], pbuf[NI_MAXSERV];
+
+#ifdef INET6
+ if (myctladdr.su_family == AF_INET6
+  && (IN6_IS_ADDR_LINKLOCAL(&myctladdr.su_sin6.sin6_addr)
+   || IN6_IS_ADDR_SITELOCAL(&myctladdr.su_sin6.sin6_addr))) {
+  fprintf(stderr, "use of scoped address can be troublesome\n");
+ }
+#endif
 if (passivemode) {
-  data = socket(AF_INET, SOCK_STREAM, 0);
+  data_addr = hisctladdr;
+  data = socket(data_addr.su_family, SOCK_STREAM, 0);
  if (data
  < 0) {
   perror("ftp: socket");
   return(1);
@@ -1100,52 +1209,203 @@
     setsockopt(data, SOL_SOCKET, SO_DEBUG, (char *)&on,
```

```
        sizeof (on)) < 0)
    perror("ftp: setsockopt (ignored)");
-   if (command("PASV") != COMPLETE) {
+   switch (data_addr.su_family) {
+   case AF_INET:
+#if 0
+     if (try_epsv) {
+      result = command(pasvcmd = "EPSV 1");
+      if (code / 10 == 22 && code != 229) {
+       fprintf(stderr,
+        "wrong server: return code must be 229\n");
+       result = COMPLETE + 1;
+      }
+     } else {
+#endif
+     result = COMPLETE + 1;
+
+     if (result != COMPLETE) {
+      try_epsv = 0;
+      result = command(pasvcmd = "PASV");
+     }
+     break;
+#ifdef INET6
+   case AF_INET6:
+     if (try_epsv) {
+      result = command(pasvcmd = "EPSV 2");
+      if (code / 10 == 22 && code != 229) {
+       fprintf(stderr,
+        "wrong server: return code must be 229\n");
+       result = COMPLETE + 1;
+      }
+     } else {
+      result = COMPLETE + 1;
+     }
+     if (result != COMPLETE) {
+      try_epsv
+  = 0;
+      result = command(pasvcmd = "LPSV");
+     }
+     break;
+#endif
+   default:
+     result = COMPLETE + 1;
+     break;
+   }
+   if (result != COMPLETE) {
     printf("Passive mode refused.\n");
-    return(1);
```

```
+   goto bad;
  }

+#define pack2(var) \
+ (((var[0] & 0xff) << 8) | ((var[1] & 0xff) << 0))
+#define pack4(var) \
+ ((((var)[0] & 0xff) << 24) | (((var)[1] & 0xff) << 16) | \
+  (((var)[2] & 0xff) << 8) | (((var)[3] & 0xff) << 0))
+
  /*
   * What we've got at this point is a string of comma separated
   * one-byte unsigned integer values, separated by commas.
-   * The first four are the an IP address. The fifth is the MSB
-   * of the port number, the sixth is the LSB. From that we'll
-   * prepare a sockaddr_in.
   */
-
-  if (sscanf(pasv,"%ld,%ld,%ld,%ld,%ld,%ld",
-      &a1,&a2,&a3,&a4,&p1,&p2)
-      != 6)
-  {
-   printf("Passive mode address scan failure. Shouldn't happen!\n");
-   return(1);
+  error = 0;
+  if (strcmp(pasvcmd, "PASV") == 0) {
+   if
  (data_addr.su_family != AF_INET) {
+    error = 2;
+    goto psv_done;
+   }
+   if (code / 10 == 22 && code != 227) {
+    error = 227;
+    goto psv_done;
+   }
+   if (sscanf(pasv, "%u,%u,%u,%u,%u,%u",
+     &ad[0], &ad[1], &ad[2], &ad[3],
+     &po[0], &po[1]) != 6) {
+    error = 1;
+    goto psv_done;
+   }
+   data_addr.su_sin.sin_addr.s_addr = htonl(pack4(ad));
+   data_addr.su_port = htons(pack2(po));
+  } else
+      if (strcmp(pasvcmd, "LPSV") == 0) {
+   if (code / 10 == 22 && code != 228) {
+    error = 228;
+    goto psv_done;
+   }
```

```
+   switch (data_addr.su_family) {
+   case AF_INET:
+    if (sscanf(pasv, "%u,%u,%u,%u,%u,%u,%u,%u",
+      &af, &alen,
+      &ad[0], &ad[1], &ad[2], &ad[3],
+      &plen, &po[0], &po[1]) != 9) {
+     error = 1;
+     goto psv_done;
+    }
+    if (af != 4 || alen != 4 || plen != 2) {
+     error = 2;
+     goto psv_done;
+    }
+    data_addr.su_sin.sin_addr.s_addr =
+       htonl(pack4(ad));
+    data_addr.su_port = htons(pack2(po));
+    break;
+#ifdef
 INET6
+   case AF_INET6:
+    if (sscanf(pasv,
+ "%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u",
+      &af, &alen,
+      &ad[0], &ad[1], &ad[2], &ad[3],
+      &ad[4], &ad[5], &ad[6], &ad[7],
+      &ad[8], &ad[9], &ad[10], &ad[11],
+      &ad[12], &ad[13], &ad[14], &ad[15],
+      &plen, &po[0], &po[1]) != 21) {
+     error = 1;
+     goto psv_done;
+    }
+    if (af != 6 || alen != 16 || plen != 2) {
+     error = 2;
+     goto psv_done;
+    }
+    data_addr.su_sin6.sin6_addr.s6_addr32[0] =
+       htonl(pack4(ad));
+    data_addr.su_sin6.sin6_addr.s6_addr32[1] =
+       htonl(pack4(ad+4));
+    data_addr.su_sin6.sin6_addr.s6_addr32[2] =
+       htonl(pack4(ad+8));
+    data_addr.su_sin6.sin6_addr.s6_addr32[3] =
+       htonl(pack4(ad+12));
+    data_addr.su_port = htons(pack2(po));
+    break;
+#endif
+   default:
+    error = 1;
```

```
+   }
+  } else if (strncmp(pasvcmd, "EPSV", 4) == 0) {
+   char delim[4];
+   u_int epsvpo;
+
+   if (code / 10 ==
 22 && code != 229) {
+    error = 229;
+    goto psv_done;
+   }
+   if (sscanf(pasv, "%c%c%c%u%c", &delim[0], &delim[1],
+     &delim[2], &epsvpo, &delim[3]) != 5) {
+    error = 1;
+    goto psv_done;
+   }
+   if (delim[0] != delim[1] || delim[0] != delim[2]
+    || delim[0] != delim[3]) {
+    error = 1;
+    goto psv_done;
+   }
+   data_addr.su_port = htons(epsvpo);
+  } else {
+   error = 1;
+  }
+psv_done:
+  switch (error) {
+  case 0:
+   break;
+  case 1:
+   fprintf(stderr,
+    "Passive mode address scan failure. Shouldn't happen!\n");
+   goto bad;
+  case 2:
+   fprintf(stderr,
+     "Passive mode AF mismatch. Shouldn't happen!\n");
+   goto bad;
+  case 227:
+  case 228:
+  case 229:
+   fprintf(stderr,
+     "wrong server: return code must be %d\n", error);
+   goto bad;
+  default:
+   fprintf(stderr, "Bug\n");
   }

-  data_addr.sin_family = AF_INET;
-  data_addr.sin_addr.s_addr = htonl((a1 << 24) | (a2 << 16) |
```

```
-       (a3 << 8) | a4);
-  data_addr.sin_port = htons((p1
 << 8) | p2);
-
  if (connect(data, (struct sockaddr *) &data_addr,
-      sizeof(data_addr))<0) {
+       (data_addr.su_family == AF_INET ?
+        sizeof(data_addr.su_sin) :
+        sizeof(data_addr.su_sin6)))<0) {
   perror("ftp: connect");
   return(1);
  }
#ifdef IP_TOS
+  if (data_addr.su_family == AF_INET)
+  {
  tos = IPTOS_THROUGHPUT;
  if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&tos,
      sizeof(tos)) < 0)
   perror("ftp: setsockopt TOS (ignored)");
+  }
#endif
  return(0);
 }
noport:
 data_addr = myctladdr;
 if (sendport)
-  data_addr.sin_port = 0; /* let system pick one */
+  data_addr.su_port = 0; /* let system pick one */
 if (data != -1)
  (void) close(data);
- data = socket(AF_INET, SOCK_STREAM, 0);
+ data = socket(data_addr.su_family, SOCK_STREAM, 0);
 if (data < 0) {
  perror("ftp: socket");
  if (tmpno)
@@ -1172,13 +1432,47 @@
 if (listen(data, 1) < 0)
  perror("ftp: listen");
 if (sendport) {
-  a = (char *)&data_addr.sin_addr;
-  p
 = (char *)&data_addr.sin_port;
-#define UC(b) (((int)b)&0xff)
-  result =
-      command("PORT %d,%d,%d,%d,%d,%d",
-        UC(a[0]), UC(a[1]), UC(a[2]), UC(a[3]),
-        UC(p[0]), UC(p[1]));
+  af = ex_af2prot(data_addr.su_family);
```

```
+  if (try_eprt && af > 1) {      /* only IPv6 */
+   if (getnameinfo((struct sockaddr *)&data_addr, len,
+     hbuf, sizeof(hbuf), pbuf, sizeof(pbuf),
+     NI_NUMERICHOST | NI_NUMERICSERV) == 0) {
+    result = command("EPRT |%d|%s|%s|",
+       af, hbuf, pbuf);
+    if (result != COMPLETE) {
+     try_eprt = 0;
+    }
+   } else {
+    result = ERROR;
+   }
+  } else {
+   result = COMPLETE + 1;
+  }
+  if (result == COMPLETE)
+   goto prt_done;
+
+  p = (u_char *)&data_addr.su_port;
+  switch (data_addr.su_family) {
+  case AF_INET:
+   a = (u_char *)&data_addr.su_sin.sin_addr;
+   result = command("PORT %u,%u,%u,%u,%u,%u",
+    a[0], a[1], a[2], a[3], p[0], p[1]);
+   break;
+#ifdef INET6
+  case AF_INET6:
+   a = (u_char *)&data_addr.su_sin6.sin6_addr;
+   result
 = command(
+ "LPRT 6,16,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,2,%d,%d",
+    a[0], a[1], a[2], a[3], a[4], a[5], a[6], a[7],
+    a[8], a[9],a[10],a[11],a[12],a[13],a[14],a[15],
+    p[0], p[1]);
+   break;
+#endif
+  default:
+   result = COMPLETE + 1; /* xxx */
+  }
+
+ prt_done:
  if (result == ERROR && sendport == -1) {
   sendport = 0;
   tmpno = 1;
@@ -1189,9 +1483,12 @@
 if (tmpno)
  sendport = 1;
#ifdef IP_TOS
```

```
+ if (data_addr.su_family == AF_INET)
+ {
 on = IPTOS_THROUGHPUT;
 if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&on, sizeof(int)) < 0)
  perror("ftp: setsockopt TOS (ignored)");
+ }
#endif
 return (0);
bad:
@@ -1204,7 +1501,7 @@
static FILE *
dataconn(const char *lmode)
{
- struct sockaddr_in from;
+ union sockunion from;
 int s, tos;
 socklen_t fromlen = sizeof(from);

@@ -1220,9 +1517,12 @@
 (void) close(data);
 data = s;
#ifdef IP_TOS
+ if (from.su_family == AF_INET)
+ {
 tos = IPTOS_THROUGHPUT;
 if (setsockopt(s,
 IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
  perror("ftp: setsockopt TOS (ignored)");
+ }
#endif
 return (fdopen(data, lmode));
}
@@ -1284,8 +1584,8 @@
 static struct comvars {
  int connect;
  char name[MAXHOSTNAMELEN];
-  struct sockaddr_in mctl;
-  struct sockaddr_in hctl;
+  union sockunion mctl;
+  union sockunion hctl;
  FILE *in;
  FILE *out;
  int tpe;
@@ -1323,7 +1623,7 @@
 connected = op->connect;
 if (hostname) {
  (void) strncpy(ip->name, hostname, sizeof(ip->name) - 1);
-  ip->name[strlen(ip->name)] = '\0';
```

```
+  ip->name[sizeof(ip->name) - 1] = '\0';
 }
 else {
  ip->name[0] = 0;
@@ -1352,18 +1652,18 @@
 ip->ntflg = ntflag;
 ntflag = op->ntflg;
 (void) strncpy(ip->nti, ntin, 16);
- (ip->nti)[strlen(ip->nti)] = '\0';
+ (ip->nti)[16] = '\0';  /* shouldn't use strlen */
 (void) strcpy(ntin, op->nti);
 (void) strncpy(ip->nto, ntout, 16);
- (ip->nto)[strlen(ip->nto)] = '\0';
+ (ip->nto)[16] = '\0';
 (void) strcpy(ntout, op->nto);
 ip->mapflg
 = mapflag;
 mapflag = op->mapflg;
 (void) strncpy(ip->mi, mapin, MAXPATHLEN - 1);
- (ip->mi)[strlen(ip->mi)] = '\0';
+ (ip->mi)[MAXPATHLEN - 1] = '\0';
 (void) strcpy(mapin, op->mi);
 (void) strncpy(ip->mo, mapout, MAXPATHLEN - 1);
- (ip->mo)[strlen(ip->mo)] = '\0';
+ (ip->mo)[MAXPATHLEN - 1] = '\0';
 (void) strcpy(mapout, op->mo);
 (void) signal(SIGINT, oldintr);
 if (abrtflag) {
diff -uNr netkit-ftp-0.17/ftp/ftp_var.h netkit-ftp/ftp/ftp_var.h
--- netkit-ftp-0.17/ftp/ftp_var.h Sat Oct  2 21:39:17 1999
+++ netkit-ftp/ftp/ftp_var.h Fri Jan 12 23:36:27 2001
@@ -1,3 +1,5 @@
+/* $USAGI$ */
+
 /*
  * Copyright (c) 1985, 1989 Regents of the University of California.
  * All rights reserved.
@@ -31,7 +33,7 @@
  * SUCH DAMAGE.
  *
  * from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
- * $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
+ * $Id: ftp_var.h,v 1.3 2001/01/12 21:36:27 sekiya Exp $
  */

 /*
@@ -112,6 +114,8 @@
 Extern int mflag;  /* flag: if != 0, then active multi command
```

```
 */

Extern int options; /* used during socket creation */
+Extern int try_epsv; /* try EPSV for this session */
+Extern int try_eprt; /* try EPRT for this session */

/*
 * Format of command table.
@@ -140,7 +144,7 @@
Extern char macbuf[4096];
#define MACBUF_SIZE 4096

-char *hookup(char *host, int port);
+char *hookup(const char *host, const char *port);
struct cmd *getcmd(const char *);
char **makeargv(int *pargc, char **parg);
int dologin(const char *host);

Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp.usagi-ipv6.patch
No license file was found, but licenses were detected in source scan.

Summary: The standard UNIX FTP (File Transfer Protocol) client
Name: ftp
Version: 0.17
Release: 67%{?dist}
License: BSD with advertising
Group: Applications/Internet
Source0: ftp://ftp.linux.org.uk/pub/linux/Networking/netkit/netkit-ftp-%{version}.tar.gz
URL: ftp://ftp.linux.org.uk/pub/linux/Networking/netkit
Patch1: netkit-ftp-0.17-pre20000412.pasv-security.patch
Patch2: netkit-ftp-0.17-acct.patch
Patch3: netkit-ftp.usagi-ipv6.patch
Patch4: netkit-ftp-0.17-segv.patch
Patch5: netkit-ftp-0.17-volatile.patch
Patch6: netkit-ftp-0.17-runique_mget.patch
Patch7: netkit-ftp-locale.patch
Patch8: netkit-ftp-0.17-printf.patch
Patch9: netkit-ftp-0.17-longint.patch
Patch10: netkit-ftp-0.17-vsftp165083.patch
Patch11: netkit-ftp-0.17-C-Frame121.patch
Patch12: netkit-ftp-0.17-data.patch
Patch13: netkit-ftp-0.17-multihome.patch
Patch14: netkit-ftp-0.17-longnames.patch
Patch15: netkit-ftp-0.17-multiipv6.patch
Patch16: netkit-ftp-0.17-nodebug.patch
Patch17:
```

```
 netkit-ftp-0.17-stamp.patch
Patch18: netkit-ftp-0.17-sigseg.patch
Patch19: netkit-ftp-0.17-size.patch
Patch20: netkit-ftp-0.17-fdleak.patch
Patch21: netkit-ftp-0.17-fprintf.patch
Patch22: netkit-ftp-0.17-bitrate.patch
Patch23: netkit-ftp-0.17-arg_max.patch
Patch24: netkit-ftp-0.17-case.patch
Patch25: netkit-ftp-0.17-chkmalloc.patch
Patch26: netkit-ftp-0.17-man.patch
Patch27: netkit-ftp-0.17-acct_ovl.patch
Patch28: netkit-ftp-0.17-remove-nested-include.patch
Patch29: netkit-ftp-0.17-linelen.patch
Patch30: netkit-ftp-0.17-active-mode-option.patch
Patch31: netkit-ftp-0.17-commands-leaks.patch
Patch32: netkit-ftp-0.17-lsn-timeout.patch
Patch33: netkit-ftp-0.17-getlogin.patch
Patch34: netkit-ftp-0.17-token.patch
Patch35: netkit-ftp-0.17-arg_max1.patch

BuildRequires: glibc-devel, readline-devel, ncurses-devel

%description
The ftp package provides the standard UNIX command-line FTP (File
Transfer Protocol) client.  FTP is a widely used protocol for
transferring files
 over the Internet and for archiving files.

If your system is on a network, you should install ftp in order to do
file transfers.

%prep
%setup -q -n netkit-ftp-%{version}
%patch1 -p1
%patch2 -p1 -b .acct
%patch3 -p1 -b .ipv6
%patch4 -p1 -b .segv
%patch5 -p1 -b .volatile
%patch6 -p1 -b .runique_mget
%patch7 -p1 -b .locale
%patch8 -p1 -b .printf
%patch9 -p1 -b .longint
%patch10 -p1 -b .vsftp165083
%patch11 -p1 -b .C-Frame121
%patch12 -p1 -b .data
%patch13 -p1 -b .multihome
%patch14 -p1 -b .patch
%patch15 -p1 -b .multiipv6
```

```
%patch16 -p1 -b .nodebug
%patch17 -p1 -b .stamp
%patch18 -p1 -b .sigseg
%patch19 -p1 -b .size
%patch20 -p1 -b .fdleak
%patch21 -p1 -b .fprintf
%patch22 -p1 -b .bitrate
%patch23 -p1 -b .arg_max
%patch24 -p1 -b .case
%patch25 -p1 -b .chkmalloc
%patch26 -p1 -b .man
%patch27 -p1 -b .acct_ovl
%patch28 -p1
%patch29 -p1 -b .linelen
%patch30 -p1 -b .activemode
%patch31 -p1 -b .cmds-leaks
%patch32 -p1 -b .lsn-timeout
%patch33 -p1 -b .getlogin
%patch34 -p1 -b .token
%patch35 -p1
 -b .arg_max1

%build
sh configure --with-c-compiler=gcc --enable-ipv6
perl -pi -e '
  s,^CC=.*$,CC=cc,;
  s,-O2,\$(RPM_OPT_FLAGS) -D_GNU_SOURCE -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -
D_FILE_OFFSET_BITS=64,;
  s,^BINDIR=.*$,BINDIR=%{_bindir},;
  s,^MANDIR=.*$,MANDIR=%{_mandir},;
  s,^SBINDIR=.*$,SBINDIR=%{_sbindir},;
  ' MCONFIG

make %{?_smp_mflags}

%install
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man1
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man5

make INSTALLROOT=${RPM_BUILD_ROOT} install

%files
%{_bindir}/ftp
%{_bindir}/pftp
%{_mandir}/man1/ftp.*
%{_mandir}/man1/pftp.*
%{_mandir}/man5/netrc.*
```

%changelog
* Wed Feb 3 2016 Jan Synáek <jsynacek@redhat.com> - 0.17-67
- fix 'Out of memory' message when stacksize is set to unlimited (#1304064)

* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 0.17-66
- Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 0.17-65
- Mass rebuild 2013-12-27

* Wed Feb 13 2013 Fedora
 Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-64
- Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Oct 30 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-63
- Fix buffer overflow in token parsing
- Resolves: #871296

* Tue Oct 30 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-62
- Fix linelen patch
- Resolves: #871290

* Wed Oct 03 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-61
- Fix: FTP client does not expand home directory correctly after sudo or su
- Resolves: #861113

* Tue Sep 25 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-60
- Plug leaks in "put", "send", "append"
- Add listening timeout

* Tue Aug 28 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-59
- Add active mode option

* Fri Aug 03 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-58
- Extend the input line buffer and the argument storage buffer
- Prettify spec some more and remove trailing space

* Fri Jul 20 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-57
- Remove nested include (fix
 compilation in rawhide)

* Thu Jul 19 2012 Jan Synáek <jsynacek@redhat.com> - 0.17-56
- Fixed Source0 and URL
- Make spec fedora-review-friendly

* Thu Jul 19 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-56
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-55
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Sep 09 2011 Jiri Skala <jskala@redhat.com> - 0.17-54
- fixes #737016 - ftp: off-by-one in account command parsing

* Tue Mar 29 2011 Jiri Skala <jskala@redhat.com> - 0.17-53
- fixes #673850 - ftp(1) manpage fixes

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-52
- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-51
- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

*
Tue Feb 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-50
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Dec 01 2008 Jiri Skala <jskala@redhat.com> - 0.17-49
- Resolves: #473491 unchecked malloc

* Wed Apr 23 2008 Martin Nagy <mnagy@redhat.com> - 0.17-48
- fix mget when using case
- Resolves: #442712

* Mon Apr 07 2008 Martin Nagy <mnagy@redhat.com> - 0.17-47
- Use sysconf to get ARG_MAX instead of a macro (#440782)

* Tue Feb 19 2008 Fedora Release Engineering <rel-eng@fedoraproject.org> - 0.17-46
- Autorebuild for GCC 4.3

* Mon Jan 28 2008 Marcela Maslanova <mmaslano@redhat.com> - 0.17-45
- changed bitrate from 1e+03 KBytes/sec to 1000 kBytes/sec
- Resolves: rhbz#430457

* Thu Nov 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-44
- using fprintf instead of printf

* Mon Oct 22 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-43
- feature: for cmd size is switching to TYPE_I automatized
- bug: ftp leaks socket fds
when it fails to open a file (#315241)
- rhbz#306191

* Fri Aug 24 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-42
- rebuilt (for mass rebuild)

- license tag checked

* Tue Aug 07 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-41
- #251074 add patch from Jan Kratochvil

* Wed Feb 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-40
- review again

* Wed Feb 14 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-39
- review again

* Mon Feb 7 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-38
- add gpl
- spec fix
- rhbz#225774

* Tue Jan 30 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-35
- nodebug package

* Wed Sep 13 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-33
- rebuilt

* Wed Aug 2 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.4
- fix (#199145) patch for IPv6 multihome

* Thu Jul 25 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.3
- fix (#196103) patch for long filenames

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com>
 - 0.17-32.1.2.1
- rebuild

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.2
- bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.1
- rebuilt for new gcc4.1 snapshot and glibc changes

* Thu Jan 12 2006 Petr Raszyk <praszyk@redhat.com> - 0.17-32
- support for multi-homed clients
 See #171621, netkit-ftp-0.17-multihome.patch

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
- rebuilt

* Fri Dec 2 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-31
- ftp does not close socket descriptor (if the remote file
 does not exist).

See #174599, netkit-ftp-0.17-data.patch

* Wed Oct 26 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-30
- The patch netkit-ftp-0.17-C-Frame121.patch adds some
comments/hints for C-Frame 121. It can be removed any time.

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-29
- rebuild

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-28
- This 'hack' will avoid a bug
in ftp-server
(< vsftpd-2.0.1-5). See #165083 (server prints the
'150 FILE:...' line twice).
This patch can be (later ?) removed.

* Mon Aug 22 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-27
- overflow using 'hash mode' (printing '#' but
not reading data from network - #79367)

* Tue May 24 2005 Miloslav Trmac <mitr@redhat.com> - 0.17-26
- Fix passive mode with SELinux (#158234, patch by Nalin Dahyabhai)
- Fix format string mismatch

* Fri Mar 04 2005 Jiri Ryska <jryska@redhat.com>
- rebuilt

* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.17-24
- Rebuilt for new readline.

* Wed Dec 15 2004 Tim Waugh <twaugh@redhat.com>
- Call setlocale() so that readline works correctly (bug #142265).

* Tue Dec 7 2004 Thomas Woerner <twoerner@redhat.com> 0.17-23
- fixed mget with runique (#79367)

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Mon Jun 14 2004 Alan Cox <alan@redhat.com>
- Re-arranged some totally bogus old bezerkly code that could
segfault ftp on
connection loss. (BZ #122295)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>

- rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Fri Dec 13 2002 Elliot Lee <sopwith@redhat.com>
- Rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Fri Apr 12 2002 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-13
- Recompile with support for files > 2 GB

* Mon Jun 25 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-12
- Add some Build dependencies (#45007)

* Fri May 18 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-11
- Actually apply Patch #3

* Fri May 11 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-10
- Rebuild with new readline

* Sun Apr 15 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Add IPv6 patch (RFE #35642)

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it
 can pick up egcs

* Sun Jan 21 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Update to 0.17 final
- Fix up ACCT support in netrc (Bug #17353)

* Wed Aug 16 2000 Philipp Knirsch <pknirsch@redhat.com>
- Switched the default transfer protocol from PORT to PASV as proposed on
 bugzilla (#16134)
- Fixed a small compiler warning in ftp.c line 886

* Fri Jul 14 2000 Jeff Johnson <jbj@redhat.com>
- add netrc man page (#7443).
- fix possible buffer overflows in ftp client.

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17-pre20000412.

* Wed Apr 5 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- rebuild with current libreadline

* Fri Mar 24 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- 0.17

* Fri Feb 4 2000 Bill Nottingham <notting@redhat.com>
- handle compressed man pages

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- the ftp client does not require inetd

* Wed Dec 22
 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Mon Aug 30 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- enable readline support (#3796).

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/ftp.spec
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/cmdtab.c
*
/ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/cmds.c
* /ftp-0.17-67.el7-1.src.rpm-cosi-expand-archive-eUxFdWi5/netkit-ftp-0.17.tar.gz-cosi-expand-archive-i1Aszbli/netkit-ftp-0.17/ftp/main.c

1.1148 geronimo-saaj 1.0.1

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libcurl can be built to use a fair amount of various third party libraries,
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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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1.1151 jaxen 1.1.2-3

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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/RegularExpression.java
*
 /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Match.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/Op.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/REUtil.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/SimpleURType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XSDatatype.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/SerializationContext.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GDayType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ListValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DurationType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TokenType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NmtokenType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Proxy.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExp.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FinalComponent.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedByteType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BooleanType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GYearType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LongType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java

* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/DatabindableDatatype.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateTimeType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/AnyURIType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NcnameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Discrete.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnionType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Comparator.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XmlNames.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PatternFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatingNumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/RangeFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ListType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/TimeType.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/StringType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ErrorType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java

* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/IDREFType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java
*
/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/BinaryValueType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NumberType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DateType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DoubleType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/LanguageType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/ByteType.java
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/EntityType.java
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* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message_ja.properties
* /xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message.properties

1.1154 aop-alliance 1.0

1.1154.1 Available under license :

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1.1155 dtd-parser 1.0

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1.1156 oauth-consumer 20090531

1.1157 bayeux-api 4.0.7

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* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/LocalSession.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/ServerTransport.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/ServerMessage.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Message.java
*
 /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/ConfigurableServerChannel.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Bayeux.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Channel.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Promise.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/BayeuxContext.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/client/ClientSession.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/ServerSession.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/BayeuxServer.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/client/ClientSessionChannel.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/BinaryData.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Transport.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/Session.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/Authorizer.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/ChannelId.java
*
 /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/ServerChannel.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/MarkedReference.java
* /bayeux-api-4-0-7-sources-jar/org/cometd/bayeux/server/SecurityPolicy.java

1.1158 slf4j 1.7.2

1.1158.1 Available under license :

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* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/MessageFormatter.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/ILoggerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/FormattingTuple.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/IMarkerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/Marker.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/NOPMDCAdapter.java
*
/slf4j-api-1-7-2-sources-1-jar/org/slf4j/LoggerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/spi/LocationAwareLogger.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/MarkerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/Logger.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/MDC.java
* /slf4j-api-1-7-2-sources-1-jar/org/slf4j/helpers/Util.java

1.1159 yum 3.4.3-163.el7

1.1159.1 Available under license :

```
diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
+++ yum-3.4.3/yum/update_md.py 2017-01-24 18:55:57.213511475 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).
    """

-   def __init__(self, elem=None):
+   def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from'            : '',
            'type'            : '',
@@ -83,6 +83,9 @@ class UpdateNotice(object):
        if elem:
            self._parse(elem)

+       self._repoid = repoid
+       self._vlogger = vlogger
+
    def __getitem__(self, item):
        """ Allows scriptable metadata access (ie: un['update_id']). """
        if type(item) is int:
@@ -103,6 +106,24 @@ class UpdateNotice(object):
        #  Tests to see if it's "the same data", which means that the
        # packages can be different (see add_notice).

+
+       def _rid(un):
+           if hasattr(un, '_repoid') and un._repoid is not None:
+               return un._repoid
+           else:
+               return '<unknown>'
+
+       def _log_failure(data):
+           """Log the mismatched data similarly to conflict markers in git."""
+           if self._vlogger is None:
+               return
+           msg = _('Duplicate of %s differs in some fields:\n')
+           msg %= other._md['update_id']
+           msg += '<<<<<<< %s:%s\n' % (_rid(other), data)
+           msg += '%r\n=======\n%r\n' % (other._md[data], self._md[data])
+           msg += '>>>>>>> %s:%s' % (_rid(self), data)
+           # --verbose mode enables this
+           self._vlogger.log(logginglevels.DEBUG_3, msg)
+
        if not other or not hasattr(other, '_md'):
            return False
```

```
@@ -113,6 +134,7 @@ class UpdateNotice(object):
          if data == 'status': # FIXME: See below...
             continue
          if self._md[data]
 != other._md[data]:
+              _log_failure(data)
             return False
       # FIXME: Massive hack, Fedora is really broken and gives status=stable
       # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
       data = 'status'
       if self._md[data] != other._md[data]:
          if self._md[data]  not in ('stable', 'testing'):
+              _log_failure(data)
             return False
          if other._md[data] not in ('stable', 'testing'):
+              _log_failure(data)
             return False
          # They are both really "stable" ...
          self._md[data]  = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
       for event, elem in safe_iterparse(infile, logger=self._logger):
          if elem.tag == 'update':
             try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
             except UpdateNoticeException, e:
                msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
_rid(repoid))
                if not have_dup:
                   msg += _('\nYou should report this problem to the owner of the %srepository.') % _rid(repoid, "%s ")
+                  msg += _('\nIf you are the owner, consider re-running the same command with --verbose to see the '
+                           'exact data that caused the conflict.')
                have_dup = True
                if self._vlogger:
                   self._vlogger.warn("%s", msg)
diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
+++ b/yum/update_md.py 2015-01-19 08:57:31.576489424 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
          except Errors.RepoMDError:
             continue # No metadata found for this repo

+       self.arch_storage = ArchStorage()
```

```
+       self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """ Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
        name = oldpkgtup[0]
        arch = oldpkgtup[1]
        ret = []
+       other_arch_list = []
+       notices = set()
        for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
                for pkg in upkg['packages']:
+                   other_arch = False
                    if pkg['name'] != name or pkg['arch'] != arch:
-                       continue
+
     if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                       other_arch = True
+                   else:
+                       continue
                    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                              pkg['version'], pkg['release'])
                    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                        continue
-                   ret.append((pkgtup, notice))
+                   if other_arch:
+                       other_arch_list.append((pkgtup, notice))
+                   else:
+                       ret.append((pkgtup, notice))
+                       notices.add(notice)
+       for pkgtup, notice in other_arch_list:
+           if notice not in notices:
+               ret.append((pkgtup, notice))
        ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
        return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
---
 yum-3.4.3/yum/update_md.py.old 2015-05-28 19:23:35.589691937 +0200
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
import logginglevels

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage
```

def safe_iterparse(filename, logger=None):
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1162 jersey-container-servlet-core 2.13

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1.1163 guice-jmx 2.0

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Manifest-Version: 1.0
Ant-Version: Apache Ant 1.7.0
Created-By: 1.6.0_07 (Apple Inc.)
Export-Package: com.google.inject.tools.jmx;uses:="com.google.inject,j
avax.management";version="1.2"
Bundle-Name: guice-jmx
Bundle-Copyright: Copyright (C) 2006 Google Inc.
Bundle-Vendor: Google Inc.
Bundle-Version: 2.0
Bundle-ManifestVersion: 2
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-Description: Guice is a lightweight dependency injection framew
ork for Java 5 and above
Import-Package: com.google.inject;version="[1.2,2)",com.google.inject.
tools.jmx;version="[1.2,2)",javax.management;resolution:=optional
Bundle-SymbolicName: com.google.inject.tools.jmx
Bundle-DocURL: http://code.google.com/p/google-guice/

Found in path(s):
* /guice-jmx-2-0-zip/META-INF/MANIFEST.MF

1.1164 hamcrest 2.2

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1.1165 ecj 3.26.0

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*           bug 292478 - Report potentially null across variable assignment
*           bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
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*   Bug 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.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 358903 - Filter practically unimportant resource leak warnings
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

```
*       Bug 431581 - Eclipse compiles what it should not
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 446442 - [1.8] merge null annotations from
 super methods
*       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*     Stephan Herrmann - Contributions for
*           bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
```

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*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
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*       Bug 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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*   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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*    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-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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* 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/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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*   Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
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*       Bug 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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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.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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*    wharley@bea.com - initial API and implementation
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
***/

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)
* Stephan Herrmann - Contribution for
* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
**********/

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* Frits Jalvingh - fix for bug 533830.
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*        Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
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* /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
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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 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/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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*   bug 384380 - False positive on a "Potential null pointer access" after a continue
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*     Perry James - nullStatus method improvement (165346)
*     Stephan Herrmann - Contribution for
*         bug 383368 - [compiler][null] syntactic null analysis for field references
**********************************************************************************/
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*         Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8

* Bug 420080 - [1.8] Overridden Default method is reported as duplicated
* Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
* Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
**********/

Found in path(s):
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 364890 - BinaryTypeBinding should use char constants from Util
* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388800 - [1.8][compiler] detect default methods in class files
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.

* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
* Bug 454182 - Internal compiler error when using
1.8 compliance for simple project
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Sebastian Zarnekow - Contributions for
* bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
* bug 566258 - Intermittent NPE in APT RoundDispatcher
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug
422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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*    IBM Corporation - fix for 342936
*    Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*        Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
```

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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* Contributors:
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
**********/

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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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*   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:
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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-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
*******************************************************************************/
```

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*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
```

```
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*          bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

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*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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* Contributors:
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*   Jesper S Møller <jesper@selskabet.org> - Contributions for
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/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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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
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*   Stephan Herrmann - Contribution for
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
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*         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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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
```

checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
null test in lazy disjunction
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* Bug 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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*   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
```

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*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*        Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*        Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*        Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
```

work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Bug 419209 - [1.8] Repeating container annotations
should be rejected in the presence of annotation it contains
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* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong

* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Bug 529556 - [18.3] Add content assist support for 'var' as a type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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*   wharley@bea.com - derived base class from BatchMessagerImpl
*
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*   Bug 440474 - [null] textual encoding of external null annotations
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*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 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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*     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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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*        bug 328281 - visibility leaks not detected when analyzing unused field in private class
```

```
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*      Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*      Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*      Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
*******************************************************************************/

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*   Stephan Herrmann - Contribution for
*   bug 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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*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   bug 407191 - [1.8] Binary access support for type annotations
*   Stephan Herrmann - Contribution for
*   Bug 440474 - [null] textual encoding of external null annotations
***/

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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
 *   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 376053 - [compiler][resource] Strange potential resource leak problems
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   bug 393719 - [compiler] inconsistent warnings on iteration
 variables
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs

special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
**********/

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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 379784 - [compiler] "Method can be static" is not getting reported
* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null

analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 417295 - [1.8[[null] Massage type annotated null analysis
to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
* Bug 470958 - [1.8] Unable to convert lambda
* Bug 410218 - Optional warning
for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java

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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing 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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* Contributors:
*    IBM Corporation - initial API and implementation
*    IBM Corporation - Fix for bug 328575
*    het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
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/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
***/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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*    tyeung@bea.com  - initial API and implementation
*    IBM Corporation - fix for bug 342757
*    Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java
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* Contributors:
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*        Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

Found
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java
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*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* Contributors:
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.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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*   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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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
```

```
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*           bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*   IBM Corporation - Bug fixes
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*   IBM Corporation - Bug 513790
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 387612 - Unreachable catch block...exception is never thrown from the try
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
* bug 401271 - StackOverflowError
when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.

```
*     Jesper S Moller - Contributions for
*        Bug 378674 - "The method can be declared as static" is wrong
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*        bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*        bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*        bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                     Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*       Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*                     Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.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/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.
**/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java
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*
*Contributors:
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*   Stephan Herrmann - Contribution for
*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* Contributors:
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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-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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*   Stephan Herrmann - Contribution for
*   Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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*   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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*   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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*   Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*   Stephan Herrmann - Contributions for

```
*       bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*       bug 401035 - [1.8] A few tests have started failing recently
*    Jesper S Moller - Contributions for
*      bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*      bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*      bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*      bug 393192 - Incomplete type hierarchy with > 10 annotations
*      bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Andy Clement - Contributions for
*                   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
          Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
*******************************************************************************/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     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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*   Stephan Herrmann - Contribution for
*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
**********/

Found
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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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*
* Contributors:
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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
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java

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*     Walter Harley   - Patch for ensuring the parent folders are created
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 370930 - NonNull annotation not considered for enhanced for loops
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*        Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*        bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                             bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
```

**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*   Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/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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*   Erling Ellingsen - patch for bug 125570

* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Sebastian Zarnekow - Contribution for
* Bug 544921 - [performance] Poor performance with large source files
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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* het@google.com - Bug 441790
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationMirrorImpl.java
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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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*   Jesper Steen Moeller - Contributions for:
*   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 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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*     Stephan Herrmann - Contributions for
*            bug 332637 - Dead Code detection removing code that isn't dead
*            bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*            bug 349326 - [1.7] new warning for missing try-with-resources
*            bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*        bug 358903 - Filter practically unimportant resource
 leak warnings
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*        bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*        Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*        Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*        bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
*******************************************************************************/
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*        bug 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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*   het@google.com - Bug 441790
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*     Stephan Herrmann - Contributions for
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
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*     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/RecoveredElement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
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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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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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*   Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations

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*         bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*       Bug 431408 - Java 8 (1.8) generics bug
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
```

* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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*         bug 292478 - Report potentially null across variable assignment
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field
 references
*         bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*         bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*         Bug 426792 - [1.8][inference][impl] generify new type inference engine
*         Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*         Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*         Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*         Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*         Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*         Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*           Bug 473178
**********************************************************************************/

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* Contributors:
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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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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Jesper S Moller  -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*   Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Robert Roth <robert.roth.off@gmail.com> - Contributions for
*   Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
**********/

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*   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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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java

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*         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/ast/LabeledStatement.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
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/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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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/lookup/ReductionResult.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
*******************************************************************************/
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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*   Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
**********/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

 @T Z;   type => Z annotations => [[@T]]
     @T Y.@T Z   type => Z annotations => [[@T][@T]]
     @T X.@T Y.@T Z   type => Z annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z   type => Z annotations => [[][@T][@T][@T]]

in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.
*/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
***/

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*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/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
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*   bug 386692 - Missing "unused" warning on "autowired" fields
*   Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*   bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
**/

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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Jesper S Moller   - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Frits Jalvingh   - contributions for bug 533830.
*   Red Hat Inc.   - add module-info Javadoc support
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*        bug 332637 - Dead Code detection removing code that isn't dead
*        bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*        bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*           bug 186342 - [compiler][null] Using annotations for null checking
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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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/lookup/SplitPackageBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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*   Stephan Herrmann - contributions for
*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*   Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*   Bug 457079 - Regression: type inference
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*   Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 367203 - [compiler][null] detect assigning null to nonnull argument
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 401030 - [1.8][null] Null analysis support for lambda methods.
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally
encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
* Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.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
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*       bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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*   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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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*         Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*         Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*         Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*         Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
**********************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* Contributors:
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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*     Stephan Herrmann - Contribution for
*         Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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*   Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*   Stephan Herrmann - Contribution for
*   bug 331649 - [compiler][null] consider null annotations for fields
**********/

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*
* Contributors:
*   wharley@bea.com - initial API and implementation

*   IBM Corporation - Fix for bug 341494
*   IBM Corporation - Fix for bug 328575
*   IBM Corporation - Java 8 support
***/

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*   Stephan Herrmann - Contributions for
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*   bug 370930 - NonNull annotation not considered for enhanced for loops
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops

```
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java
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* 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 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/RawTypeBinding.java
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*   IBM Corporation - initial API and implementation
*   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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*     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
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.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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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 295551 - Add option to automatically promote all warnings to errors
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug
 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 366063 - Compiler should not add synthetic @NonNull annotations
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*   Jesper Steen Moller - Contributions for
*   bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*   bug 407297 - [1.8][compiler] Control generation of parameter names by option
**/

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*     Stephan Herrmann - 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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*     Stephan Herrmann - Contributions for
*         bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*         bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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*     Stephan Herrmann - 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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*   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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1.1166 python-pyasn1 0.1.9-7.el7

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1.1167 tiles-template 3.0.8

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1.1168 hk2-locator 2.3.0-b10

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1.1169 jackson-jaxrs 2.9.9

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1.1171 javax-inject 2.3.0-b10

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1.1172 tiles-request-servlet 1.0.7

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* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptRepositoryListener.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptMessageContext.java
*

/axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/JSOMElementConvertor.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptDeploymentEngine.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptModule.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/OMElementConvertor.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/ConvertorFactory.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptInvoker.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/DefaultOMElementConvertor.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/convertors/RBOMElementConvertor.java
* /axis2-scripting-1-4-sources-jar/org/apache/axis2/scripting/ScriptReceiver.java

1.1176 json-java 20070829

1.1176.1 Available under license :

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Found in path(s):
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTPTokener.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONObject.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CDL.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XML.java

* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/Cookie.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java
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Found in path(s):
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONWriter.java
* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONStringer.java

1.1177 flying-saucer-core 9.1.20

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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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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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$
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For the W3C schema and DTD files in the org.apache.woden.resolver package:

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* $Revision: 1.16 $
* $Date: 2004/02/21 17:10:29 $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/util/ValidatorUtils.java,v
1.7.2.1 2004/06/22 02:24:38 husted Exp $
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* $Date: 2004/06/22 02:24:38 $
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1.11 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Var.java,v 1.11
2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/UrlValidator.java,v 1.19 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/DateValidator.java,v 1.6 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Arg.java,v 1.17
2004/02/21 17:10:29 rleland Exp $
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/*
* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/GenericValidator.java,v
1.29 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/ValidatorResources.java,v 1.30.2.2 2004/06/22 02:24:38 husted Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/Constant.java,v 1.10 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Validator.java,v 1.34 2004/02/21 17:10:29 rleland Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Attic/ValidatorUtil.java,v 1.14.2.1 2004/06/22 02:24:38 husted Exp $
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* $Header: /home/cvs/jakarta-commons/validator/src/share/org/apache/commons/validator/Field.java,v 1.31.2.3
2004/11/11 15:32:03 niallp Exp $
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* /opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/saml2/core/impl/AssertionIDRefMarshaller.java
* /opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/saml1/core/impl/AudienceUnmarshaller.java
*
/opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/saml2/metadata/impl/SPSSODescriptorImpl.java
* /opensaml-saml-impl-3-4-6-sources-
jar/org/opensaml/saml/common/profile/impl/AddNotOnOrAfterConditionToAssertions.java
* /opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/saml1/core/impl/AssertionBuilder.java
* /opensaml-saml-impl-3-4-6-sources-
jar/org/opensaml/saml/metadata/resolver/impl/SAMLArtifactURLBuilder.java
* /opensaml-saml-impl-3-4-6-sources-
jar/org/opensaml/saml/saml1/core/impl/AssertionIDReferenceUnmarshaller.java
* /opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/saml2/profile/impl/AbstractResponseShellAction.java
* /opensaml-saml-impl-3-4-6-sources-jar/org/opensaml/saml/ext/saml2mdui/impl/PrivacyStatementURLImpl.java
* /opensaml-saml-impl-3-4-6-sources-
jar/org/opensaml/saml/saml1/core/impl/AuthorizationDecisionQueryImpl.java

1.1197 procps 3.3.10-27.el7

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This option is useful when you wish to copy part of the code of
the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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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
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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

Appendix: How to Apply These Terms to Your New Libraries

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
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available free
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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.

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1.1203 axis2-mtompolicy 1.7.9

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elharo Exp $
* $Revision: 1.30 $
* $Date: 2006/06/03 20:07:19 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TrueFunction.java,v 1.9 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FilterExpr.java,v 1.10 2006/11/08
16:28:04 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/11/08 16:28:04 $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.9 2006/11/08
17:02:21 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/11/08 17:02:21 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11 2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/13 22:10:09 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/11/08 19:06:30 $
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21:47:41 elharo Exp $
* $Revision: 1.10 $
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2006/04/07 23:47:37 elharo Exp $
* $Revision: 1.32 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DOMXPath.java,v 1.10 2006/06/03
20:44:16 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/06/03 20:44:16 $
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* $Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleNamespaceContext.java,v 1.18
2006/06/03 20:19:26 elharo Exp $
* $Revision: 1.18 $
* $Date: 2006/06/03 20:19:26 $
*

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* $Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/SimpleNamespaceContext.java
No license file was found, but licenses were detected in source scan.

/*
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNumberExpr.java,v 1.13
2006/11/30 18:49:26 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultNumberExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp $
*/
```

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultNumberExpr.java
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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java,v 1.7
2006/06/03 20:50:12 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:50:12 $
*
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* $Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/PositionFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelativeLocationPath.java,v 1.13
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultRelativeLocationPath.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLiteralExpr.java,v 1.13 2007/01/03
20:47:42 elharo Exp $
* $Revision: 1.13 $
* $Date: 2007/01/03 20:47:42 $
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* $Id: DefaultLiteralExpr.java,v 1.13 2007/01/03 20:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLiteralExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAbsoluteLocationPath.java,v 1.18
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.18 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultAbsoluteLocationPath.java,v 1.18 2006/11/30 18:49:27 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanExpr.java,v 1.15
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.15 $
* $Date: 2006/11/30 18:49:27 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/NamespaceNode.java,v 1.25 2006/07/03
11:14:05 elharo Exp $
* $Revision: 1.25 $
* $Date: 2006/07/03 11:14:05 $
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* $Id: NamespaceNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: ConcatFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultOrExpr.java,v 1.17 2006/11/30
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18:49:26 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultOrExpr.java,v 1.17 2006/11/30 18:49:26 elharo Exp $
*/

Found in path(s):

* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultOrExpr.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/TextNodeStep.java,v 1.6 2006/11/08 18:52:02 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/08 18:52:02 $
*
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*
* $Id: TextNodeStep.java,v 1.6 2006/11/08 18:52:02 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/TextNodeStep.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/08 17:17:32 $
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* $Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/NumberExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultCommentNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultCommentNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.7 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
*
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* $Id: NoNodeTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/NoNodeTest.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp $
* $Revision: 1.14 $
* $Date: 2007/05/02 14:27:46 $
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* $Id: Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/Predicate.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SumFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: SumFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/SumFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/BinaryExpr.java,v 1.8 2006/11/09
16:21:04 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 16:21:04 $
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* $Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CeilingFunction.java,v 1.11
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/IdFunction.java,v 1.13 2006/02/05
21:47:41 elharo Exp $

```
* $Revision: 1.13 $
* $Date: 2006/02/05 21:47:41 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMinusExpr.java,v 1.14 2006/11/30
18:49:26 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultMinusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultVariableReferenceExpr.java,v 1.16
2006/11/30 18:49:26 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:26 $
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*
* $Id: DefaultVariableReferenceExpr.java,v 1.16 2006/11/30 18:49:26 elharo Exp $
*/

Found in path(s):
* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableNamespaceAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableNamespaceAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableNamespaceAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AdditiveExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/09 16:21:05 $
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* $Id: AdditiveExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/AdditiveExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringBeforeFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
*
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* $Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/SubstringBeforeFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualsExpr.java,v 1.13 2006/11/30
18:49:26 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultEqualsExpr.java,v 1.13 2006/11/30 18:49:26 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
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$Id: IterableAxis.java,v 1.9 2006/02/05 21:47:42 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.33 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: StringFunction.java,v 1.33 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/StringFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/XPathReaderFactory.java,v 1.9
2006/09/15 20:41:38 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/09/15 20:41:38 $
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* $Id: XPathReaderFactory.java,v 1.9 2006/09/15 20:41:38 elharo Exp $
*/

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
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/*
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elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: Expr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/VariableContext.java,v 1.11 2006/07/03
11:58:31 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/07/03 11:58:31 $
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* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: XPathReader.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
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* $Revision: 1.12 $
* $Date: 2006/06/01 13:19:30 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/QualifiedName.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/UnsupportedAxisException.java,v 1.11
2006/06/03 20:26:02 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/06/03 20:26:02 $
*
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* $Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/UnsupportedAxisException.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
*
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* $Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
*
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* $Id: Operator.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/Operator.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PredicateSet.java,v 1.23 2006/11/13
22:38:17 elharo Exp $
* $Revision: 1.23 $
* $Date: 2006/11/13 22:38:17 $
*
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* $Id: PredicateSet.java,v 1.23 2006/11/13 22:38:17 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/PredicateSet.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/TextNodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
*

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* $Id: TextNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/TextNodeTest.java
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/*
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnionExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultUnionExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultUnionExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: PatternHandler.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultModExpr.java,v 1.15 2006/11/30 18:49:26 elharo Exp $
* $Revision: 1.15 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultModExpr.java,v 1.15 2006/11/30 18:49:26 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/08 15:42:39 $
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* $Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $
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$Id: NamedAccessNavigator.java,v 1.4 2006/02/05 21:47:41 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp $
* $Revision: 1.50 $
* $Date: 2007/04/16 15:44:37 $
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* $Id: BaseXPath.java,v 1.50 2007/04/16 15:44:37 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathSyntaxException.java,v 1.10
2006/06/03 20:29:30 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/06/03 20:29:30 $
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* $Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/NamespaceContext.java,v 1.10 2006/07/03
11:58:06 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/07/03 11:58:06 $
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* $Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/NamespaceContext.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: FloorFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/FloorFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08
15:41:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/08 15:41:05 $
*
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* $Id: AllNodeStep.java,v 1.6 2006/11/08 15:41:05 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/AllNodeStep.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathSyntaxException.java,v 1.12 2006/06/03
20:26:36 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/06/03 20:26:36 $
*
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* $Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/XPathSyntaxException.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/09 18:20:12 $
*
* ==

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* $Id: FollowingSiblingAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02

```
14:33:29 elharo Exp $
* $Revision: 1.10 $
* $Date: 2007/05/02 14:33:29 $
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* $Id: SelfAxisIterator.java,v 1.10 2007/05/02 14:33:29 elharo Exp $
*/
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/SelfAxisIterator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/ProcessingInstructionNodeStep.java,v 1.5
2006/11/08 15:44:33 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/11/08 15:44:33 $
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* $Id: ProcessingInstructionNodeStep.java,v 1.5 2006/11/08 15:44:33 elharo Exp $
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/*
$Id: ContextSupport.java,v 1.13 2006/06/03 20:06:06 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/MultiplicativeExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/09 16:21:05 $
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* $Id: MultiplicativeExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultEqualityExpr.java,v 1.14
2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/BooleanFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: BooleanFunction.java,v 1.17 2006/02/05 21:47:41 elharo Exp $
*/

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableFollowingAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableFollowingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingAxisIterator.java,v 1.8
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.8 $
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* $Id: FollowingAxisIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/FollowingAxisIterator.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathExpr.java,v 1.9 2007/05/02 15:04:46
elharo Exp $
* $Revision: 1.9 $
* $Date: 2007/05/02 15:04:46 $
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* $Id: XPathExpr.java,v 1.9 2007/05/02 15:04:46 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/XPathExpr.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/dom/DocumentNavigator.java,v 1.57
2007/05/05 18:08:55 elharo Exp $
* $Revision: 1.57 $
* $Date: 2007/05/05 18:08:55 $
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* $Id: DocumentNavigator.java,v 1.57 2007/05/05 18:08:55 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DocumentNavigator.java
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/*
$Id: IterableAttributeAxis.java,v 1.9 2006/06/03 20:50:12 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/XPathLexer.java,v 1.17 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: XPathLexer.java,v 1.17 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplicativeExpr.java,v 1.9
2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringAfterFunction.java,v 1.11
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenRuntimeException.java
* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenConstants.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultTextNodeStep.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultTextNodeStep.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenException.java,v 1.17 2006/06/03 20:27:21 elharo Exp $
* $Revision: 1.17 $
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*/
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenException.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAllNodeStep.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LiteralExpr.java,v 1.9 2006/11/08
16:47:30 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/11/08 16:47:30 $
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* $Id: LiteralExpr.java,v 1.9 2006/11/08 16:47:30 elharo Exp $
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* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:42 $
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*
* $Id: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/UpperFunction.java
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/Verifier.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathExpr.java,v 1.9 2006/06/03
20:52:26 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/06/03 20:52:26 $
*
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* $Id: DefaultXPathExpr.java,v 1.9 2006/06/03 20:52:26 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/PathExpr.java,v 1.9 2007/05/02 14:26:41
elharo Exp $
* $Revision: 1.9 $
* $Date: 2007/05/02 14:26:41 $
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* $Id: PathExpr.java,v 1.9 2007/05/02 14:26:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/PathExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NumberFunction.java,v 1.18
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.18 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: NumberFunction.java,v 1.18 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NumberFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultUnaryExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:27 $

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* $Id: DefaultUnaryExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultUnaryExpr.java
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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NameTest.java,v 1.7 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: NameTest.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/NameTest.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/VariableReferenceExpr.java,v 1.8
2006/11/08 19:20:29 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/08 19:20:29 $
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* $Id: VariableReferenceExpr.java,v 1.8 2006/11/08 19:20:29 elharo Exp $
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/*
$Id: DocumentNavigator.java,v 1.8 2006/06/03 20:35:31 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/Step.java,v 1.13 2006/12/10 15:32:14
elharo Exp $
* $Revision: 1.13 $
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* $Id: Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp $
```

```
*/
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/Step.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAndExpr.java,v 1.16 2006/11/30
18:49:27 elharo Exp $
* $Revision: 1.16 $
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* $Id: DefaultAndExpr.java,v 1.16 2006/11/30 18:49:27 elharo Exp $
*/

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/RoundFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: RoundFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/TranslateFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterablePrecedingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

Found in path(s):
* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/FunctionCallException.java,v 1.13 2006/07/16
11:07:25 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/07/16 11:07:25 $
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* $Id: FunctionCallException.java,v 1.13 2006/07/16 11:07:25 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/FunctionCallException.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPlusExpr.java,v 1.14 2006/11/30
18:49:26 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultPlusExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultPlusExpr.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/SubstringFunction.java,v 1.16
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/02/05 21:47:41 $
*
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/SubstringFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultAdditiveExpr.java,v 1.9
```

2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultAdditiveExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
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* $Revision: 1.13 $
* $Date: 2006/04/07 17:11:52 $
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* $Id: Pattern.java,v 1.13 2006/04/07 17:11:52 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StringLengthFunction.java,v 1.12 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:41 $
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20:21:05 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:21:05 $
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2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/03/30 13:56:36 $
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*
* $Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/Axis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LocalNameFunction.java,v 1.14
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: LocalNameFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LocalNameFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterablePrecedingAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterablePrecedingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/Function.java,v 1.8 2006/02/05 21:47:41 elharo
Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: Function.java,v 1.8 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/Function.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LangFunction.java,v 1.13 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: LangFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/LangFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EvaluateFunction.java,v 1.10
```

2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: EvaluateFunction.java,v 1.10 2006/02/05 21:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/EvaluateFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/11/30 18:49:26 $
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* $Id: DefaultFilterExpr.java,v 1.19 2006/11/30 18:49:26 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultFilterExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/EqualityExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/09 16:21:05 $
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* $Id: EqualityExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/EqualityExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/11/08 17:10:02 $
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* $Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp $
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* $Header:
/home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java,v 1.18
2007/01/06 12:21:12 elharo Exp $
* $Revision: 1.18 $
* $Date: 2007/01/06 12:21:12 $
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* $Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPredicate.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultPredicate.java,v 1.13 2006/11/30 18:49:27 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FalseFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: FalseFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/FunctionCallExpr.java,v 1.9 2006/11/08
16:37:59 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/11/08 16:37:59 $
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* $Id: FunctionCallExpr.java,v 1.9 2006/11/08 16:37:59 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantOrSelfAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/09 18:20:12 $
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*
* $Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
```

```
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultGreaterThanExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
```

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```
/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultMultiplyExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
*
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```

*
* $Id: DefaultMultiplyExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/helpers/DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: DefaultXPathHandler.java,v 1.7 2006/02/05 21:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/CountFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingletonList.java,v 1.4 2006/11/09
16:39:19 elharo Exp $
* $Revision: 1.4 $
* $Date: 2006/11/09 16:39:19 $
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* $Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathException.java,v 1.14
2006/06/03 20:28:45 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/06/03 20:28:45 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/SAXPathException.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/EndsWithFunction.java,v 1.7
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/02/05 21:47:42 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LogicalExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/11/09 16:21:05 $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableSelfAxis.java,v 1.7 2006/06/03
20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabean/JavaBeanXPath.java,v 1.6 2006/06/03
20:36:00 elharo Exp $

```
* $Revision: 1.6 $
* $Date: 2006/06/03 20:36:00 $
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* $Id: JavaBeanXPath.java,v 1.6 2006/06/03 20:36:00 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLocationPath.java,v 1.29
2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.29 $
* $Date: 2006/02/05 21:47:40 $
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*
* $Id: DefaultLocationPath.java,v 1.29 2006/02/05 21:47:40 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: Token.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/base/Token.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleVariableContext.java,v 1.19 2006/06/03
20:19:54 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/06/03 20:19:54 $
*
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* $Id: SimpleVariableContext.java,v 1.19 2006/06/03 20:19:54 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/SimpleVariableContext.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultNotEqualsExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultNotEqualsExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NamespaceTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/NamespaceTest.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/StartsWithFunction.java,v 1.11
2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: StartsWithFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/StartsWithFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyNodeTest.java,v 1.8 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: AnyNodeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultDivExpr.java,v 1.14 2006/11/30
18:49:27 elharo Exp $

```
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/LinkedIterator.java,v 1.8 2006/11/09
18:20:12 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 18:20:12 $
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* $Id: LinkedIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/LinkedIterator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/AnyChildNodeTest.java,v 1.6
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
*
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* $Id: AnyChildNodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java
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/*
$Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp $

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/XPathFunctionContext.java,v 1.29 2006/11/08 13:59:38 elharo Exp $
* $Revision: 1.29 $
* $Date: 2006/11/08 13:59:38 $
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* $Id: XPathFunctionContext.java,v 1.29 2006/11/08 13:59:38 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/XPathFunctionContext.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenHandler.java,v 1.15 2006/03/30 13:53:11
elharo Exp $
* $Revision: 1.15 $
* $Date: 2006/03/30 13:53:11 $
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* $Id: JaxenHandler.java,v 1.15 2006/03/30 13:53:11 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/JaxenHandler.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/11/09 18:20:12 $
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* $Id: SingleObjectIterator.java,v 1.8 2006/11/09 18:20:12 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/SingleObjectIterator.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableParentAxis.java,v 1.7
2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableParentAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/SimpleFunctionContext.java,v 1.14 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: SimpleFunctionContext.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/SimpleFunctionContext.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultGreaterThanEqualExpr.java,v 1.14
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultGreaterThanEqualExpr.java,v 1.14 2006/11/30 18:49:27 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05
21:47:40 elharo Exp $

* $Revision: 1.21 $
* $Date: 2006/02/05 21:47:40 $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/XPathHandler.java,v 1.9 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: XPathHandler.java,v 1.9 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/11/09 16:07:36 $
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* $Id: DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableAncestorAxis.java,v 1.7
2006/06/03 20:50:12 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:50:12 $
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* $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
*
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* $Id: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NotFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/11/08 15:57:20 $
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* $Id: UnionExpr.java,v 1.7 2006/11/08 15:57:20 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/UnionExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/DefaultNavigator.java,v 1.19 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.19 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: DefaultNavigator.java,v 1.19 2006/02/05 21:47:41 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/DefaultNavigator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/LastFunction.java,v 1.10 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
*/

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ext/LowerFunction.java,v 1.11
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: LowerFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp $
*/

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ContainsFunction.java,v 1.10
2006/02/05 21:47:41 elharo Exp $

```
* $Revision: 1.10 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorAxisIterator.java,v 1.14 2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/09 18:20:12 $
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/*
$Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp $

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21:47:42 elharo Exp $
* $Revision: 1.18 $
* $Date: 2006/02/05 21:47:42 $

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* $Id: PatternParser.java,v 1.18 2006/02/05 21:47:42 elharo Exp $
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21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTest.java,v 1.6 2006/02/05
21:47:42 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: NodeTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultLessThanEqualExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/30 18:49:26 $
*
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* $Id: DefaultLessThanEqualExpr.java,v 1.14 2006/11/30 18:49:26 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
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/*
$Id: IterableChildAxis.java,v 1.11 2006/06/03 20:50:12 elharo Exp $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:40 $
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* $Id: StackedIterator.java,v 1.12 2006/02/05 21:47:40 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/StackedIterator.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp $
* $Revision: 1.13 $
* $Date: 2006/11/09 18:20:11 $
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* $Id: DescendantAxisIterator.java,v 1.13 2006/11/09 18:20:11 elharo Exp $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/DescendantAxisIterator.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultPathExpr.java,v 1.16 2006/11/30
18:49:26 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:26 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultPathExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/13 22:10:09 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultArithExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.10 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/LocationPathPattern.java,v 1.15
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.15 $
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* $Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp $
* $Revision: 1.10 $
* $Date: 2007/01/05 18:25:43 $

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/AncestorOrSelfAxisIterator.java,v 1.14
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/11/09 18:20:12 $
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* $Revision: 1.17 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/NormalizeSpaceFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
* $Revision: 1.14 $
* $Date: 2006/02/05 21:47:40 $
*
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* $Id: DefaultExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultFunctionCallExpr.java,v 1.17
2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/11/30 18:49:27 $
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* $Id: DefaultFunctionCallExpr.java,v 1.17 2006/11/30 18:49:27 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java,v
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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* $Id: IterableDescendantOrSelfAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp $
* $Revision: 1.13 $
* $Date: 2007/05/02 14:32:38 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/xslt/DocumentFunction.java,v 1.6
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
*/

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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/xslt/DocumentFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/TokenTypes.java,v 1.12
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.12 $
* $Date: 2006/02/05 21:47:42 $
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/RelationalExpr.java,v 1.6 2006/11/09
16:21:05 elharo Exp $
* $Revision: 1.6 $

```
* $Date: 2006/11/09 16:21:05 $
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* /jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/RelationalExpr.java
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1.1206 kerberos 1.15.1-46.el7

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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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
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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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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1.1210 jaxb-xjc 2.0.5

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1.1212 tiles-servlet 3.0.5

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Finally, software

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its purpose remains meaningful.

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the work with the complete corresponding
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has
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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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1.1217 jetty-schemas 3.1.M0

1.1218 jose4j 0.9.6

1.1218.1 Available under license :

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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/DecryptionJwkSelector.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jws/EcdsaUsingShaAlgorithm.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jca/ProviderContext.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/KeyOperations.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/mac/MacUtil.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/ContentEncryptionKeys.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/CipherStrengthSupport.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/OctJwkGenerator.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/RsaJsonWebKey.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/zip/DeflateRFC1951CompressionAlgorithm.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwk/PublicJsonWebKey.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java
*
/jose4j-0-9-6-sources-2-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/json/JsonUtil.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/lang/DefaultByteGenerator.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/keys/BigEndianBigInteger.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/jws/JsonWebSignatureAlgorithm.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwx/JsonWebStructure.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwt/consumer/JtiValidator.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwa/AlgorithmInfo.java
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* /jose4j-0-9-6-sources-2-jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /jose4j-0-9-6-sources-2-jar/org/jose4j/json/JsonHeaderUtil.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1221 snake-yaml 1.12

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1.1222 jcommander 1.48

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* /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/PathConverter.java
*
 /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/IntegerConverter.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/ParametersDelegate.java
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* /jcommander-1-48-sources-1-jar/com/beust/jcommander/ParameterException.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/FileConverter.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/BigDecimalConverter.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/URIConverter.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/internal/Maps.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/converters/BaseConverter.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/internal/Sets.java
* /jcommander-1-48-sources-1-jar/com/beust/jcommander/Parameter.java
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* /jcommander-1-48-sources-1-jar/com/beust/jcommander/IStringConverter.java
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* /jcommander-1-48-sources-1-jar/com/beust/jcommander/IParameterValidator.java
*
 /jcommander-1-48-sources-1-jar/com/beust/jcommander/validators/NoValueValidator.java
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1.1224 jetty-setuid-java 1.0.4

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Found in path(s):
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
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* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

1.1225 pango 1.42.4-4.el7_7

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1.1226 scripting 1.7.9

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1244 grizzly-framework 2.3.24

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1.1247 xml-beans 2.3.0

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* /jersey-multipart-1-19-4-sources-jar/com/sun/jersey/multipart/impl/FormDataMultiPartDispatchProvider.java
* /jersey-multipart-1-19-4-sources-jar/com/sun/jersey/multipart/impl/MultiPartConfigProvider.java
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* /jersey-multipart-1-19-4-sources-jar/com/sun/jersey/multipart/MultiPartConfig.java
* /jersey-multipart-1-19-4-sources-jar/com/sun/jersey/multipart/impl/MultiPartWriter.java

1.1250 dmidecode 3.2-3.el7

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 <organization>
   <name>Google</name>
   <url>http://www.google.com/</url>
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   </license>

 </licenses>

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```

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* /google-api-services-pubsub-v1-rev20220829-2-0-0-sources-1-jar/pom.xml
* /google-api-services-pubsub-v1-rev20220829-2-0-0-sources-1-jar/target/google-api-services-pubsub-v1-rev20220829-2-0-0-jar/META-INF/maven/com.google.apis/google-api-services-pubsub/pom.xml
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* /google-api-services-pubsub-v1-rev20220829-2-0-0-sources-1-jar/com/google/api/services/pubsub/model/Expr.java
* /google-api-services-pubsub-v1-rev20220829-2-0-0-sources-1-jar/com/google/api/services/pubsub/model/ListTopicsResponse.java
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1.1252 commons-codec 1.15

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org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1254 open-ldap 2.4.44-23.el7_9

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/**
* Creates an array of the own enumerable property names of `object`.
*
* **Note:** Non-object values are coerced to objects. See the
* [ES spec](http://ecma-international.org/ecma-262/7.0/#sec-object.keys)
* for more details.
*
* @static
* @since 0.1.0
* @memberOf _
* @category Object
* @param {Object} object The object to query.
* @returns {Array} Returns the array of property names.
* @example
*
* function Foo() {
*   this.a = 1;
*   this.b = 2;
* }
*
* Foo.prototype.c = 3;
*
* _.keys(new Foo);
* // => ['a', 'b'] (iteration order is not guaranteed)
*
```

```
* _.keys('hi');
* // => ['0', '1']
*/
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1.1258 asm-commons 9.3

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/**
  * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
  * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
  * version.
  *
  * @param methodVisitor the method visitor
 to which this adapter delegates calls.
  * @param access the method's access flags (see {@link Opcodes}).
  * @param name the method's name.
  * @param descriptor the method's descriptor (see {@link Type}).
  * @throws IllegalStateException if a subclass calls this constructor.
  */
```

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/**
* Constructs a new {@link AnnotationRemapper}. Subclasses must not use this constructor.
* Instead, they must use the {@link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
* version.
*
* @param descriptor the descriptor of the
visited annotation. May be {@literal null}.
* @param annotationVisitor the annotation visitor this remapper must delegate to.

```
 * @param remapper the remapper to use to remap the types in the visited annotation.
 */
```

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 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted
method.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

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/**
 * Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
```

```
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which
this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
```

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1.1259 openam-shared 14.0.0-M6

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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Inflater.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/JZlib.java
*
/jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InflaterInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPException.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/CRC32.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfBlocks.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Checksum.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Deflater.java
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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Deflate.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Inflate.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Adler32.java
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Found in path(s):
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfCodes.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Tree.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStreamException.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/StaticTree.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfTree.java

1.1261 libuuid 2.23.2-63.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device	Boot	Start	End	Blocks	Id	System

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

```
   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
------------------
```

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023
bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

```
---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

   Device Boot      Start         End      Blocks   Id  System
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD
------------------
```

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

```
---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.


Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
 c:     4096     20479     16384     unused        0     0
 d:        0
   16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
------------------
```

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:

#	start	end	size	fstype	[fsize	bsize	cpg]
a:	4096	6144	2049	4.2BSD	0	0	0
c:	4096	20479	16384	unused	0	0	
d:	0	16064	16065	unused	0	0	

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap
6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

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1.1271 guava 31.1-jre

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* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java
*
 /guava-31-1-jre-sources-jar/com/google/common/collect/Tables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Serialization.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
* /guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
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 /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/StandardTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeBasedTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Table.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Range.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java
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* /guava-31-1-jre-sources-jar/com/google/common/math/ToDoubleRounder.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/EnumHashBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/Interner.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMultiset.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/EnumBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MapDifference.java
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/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/BiMap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIterator.java
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/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeMap.java
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/guava-31-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
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/guava-31-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java

* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/DescendingMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredMultimap.java
*
 /guava-31-1-jre-sources-jar/com/google/common/collect/TransformedIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
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/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned
 array.
  *
  * <p>This method assumes that the collection size doesn't change while the method is running.
  *
  * <p>TODO(kevinb): support concurrently modified collections?
  *
  * @param c the collection for which to return an array of elements
  */

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* /guava-31-1-jre-sources-jar/com/google/common/cache/LongAdder.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Striped64.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/LongAdder.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ComparisonChain.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java
*
 /guava-31-1-jre-sources-jar/com/google/common/collect/TableCollectors.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ArrayTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ComputationException.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java

*
/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java
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* /guava-31-1-jre-sources-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
*
/guava-31-1-jre-sources-jar/com/google/common/cache/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/net/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/math/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/xml/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/ParametricNullness.java
*
/guava-31-1-jre-sources-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/html/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/base/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java

* /guava-31-1-jre-sources-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
*
/guava-31-1-jre-sources-jar/com/google/common/eventbus/ParametricNullness.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/ParametricNullness.java
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* /guava-31-1-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java

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* /guava-31-1-jre-sources-jar/com/google/common/collect/Comparators.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
*
/guava-31-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphConstants.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ElementOrder.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
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/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/NetworkBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EndpointPair.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractValueGraph.java
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/guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MapIteratorCache.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CollectCollectors.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphBuilder.java
* /guava-31-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
*

/guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java
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/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

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* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java

* /guava-31-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java
*
 /guava-31-1-jre-sources-jar/com/google/common/cache/LoadingCache.java
* /guava-31-1-jre-sources-jar/com/google/common/net/HttpHeaders.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Enums.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/math/LongMath.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListener.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInts.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
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 /guava-31-1-jre-sources-jar/com/google/common/base/Ticker.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Hasher.java
* /guava-31-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/math/DoubleMath.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/Types.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/BoundType.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Funnel.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilter.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
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* /guava-31-1-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java
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* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheLoader.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/math/package-info.java
*
 /guava-31-1-jre-sources-jar/com/google/common/cache/CacheStats.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/Weigher.java

* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/AbstractCache.java
* /guava-31-1-jre-sources-jar/com/google/common/net/MediaType.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/Cache.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Present.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java
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 /guava-31-1-jre-sources-jar/com/google/common/math/MathPreconditions.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashCode.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /guava-31-1-jre-sources-jar/com/google/common/hash/Funnels.java
* /guava-31-1-jre-sources-jar/com/google/common/net/HostAndPort.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java
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 /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractHasher.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/math/DoubleUtils.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashingOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Hashing.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/package-info.java
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*/
/**
* 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-31-1-jre-sources-jar/com/google/common/util/concurrent/Partially.java
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*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /guava-31-1-jre-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /guava-31-1-jre-sources-jar/com/google/common/graph/Graph.java
* /guava-31-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/Network.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
*
/guava-31-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/TopKSelector.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/Graphs.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java
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* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/GwtTransient.java
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*/
/*
  * This method was 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
  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */

Found in path(s):
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Striped.java
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* /guava-31-1-jre-sources-jar/com/google/common/graph/IncidentEdgeSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashing.java
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*/
/**
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
* version.
*/

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* /guava-31-1-jre-sources-jar/com/google/common/io/ByteProcessor.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /guava-31-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LineProcessor.java
*
 /guava-31-1-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/LocalCache.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/Escapers.java
* /guava-31-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /guava-31-1-jre-sources-jar/com/google/common/net/HostSpecifier.java
* /guava-31-1-jre-sources-jar/com/google/common/net/InternetDomainName.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Splitter.java

* /guava-31-1-jre-sources-jar/com/google/common/net/UrlEscapers.java
*
 /guava-31-1-jre-sources-jar/com/google/common/base/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MapMaker.java
* /guava-31-1-jre-sources-jar/com/google/common/html/HtmlEscapers.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Callables.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeResolver.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Service.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java
*
 /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Cut.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/annotations/GwtCompatible.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java
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*/
```
/**
  * Not supported. <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>
 */
```

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* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /guava-31-1-jre-sources-jar/com/google/common/base/PatternCompiler.java
* /guava-31-1-jre-sources-jar/com/google/common/base/JdkPattern.java
* /guava-31-1-jre-sources-jar/com/google/common/base/CommonMatcher.java
* /guava-31-1-jre-sources-jar/com/google/common/base/CommonPattern.java
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```

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* /guava-31-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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* /guava-31-1-jre-sources-jar/com/google/common/graph/Traverser.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/BaseGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractBaseGraph.java
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*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
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*/

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* /guava-31-1-jre-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
*
 /guava-31-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Count.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterable.java
*
 /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
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* /guava-31-1-jre-sources-jar/com/google/common/primitives/Longs.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Chars.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Converter.java
* /guava-31-1-jre-sources-jar/com/google/common/net/PercentEscaper.java
*
 /guava-31-1-jre-sources-jar/com/google/common/primitives/Bytes.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Stopwatch.java
* /guava-31-1-jre-sources-jar/com/google/common/io/MultiReader.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/Escaper.java
* /guava-31-1-jre-sources-jar/com/google/common/io/FileBackedOutputStream.java

* /guava-31-1-jre-sources-jar/com/google/common/base/CharMatcher.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Floats.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Ints.java
* /guava-31-1-jre-sources-jar/com/google/common/net/InetAddresses.java
* /guava-31-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Shorts.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Booleans.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
*
 /guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Doubles.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Joiner.java
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*/
/*
  * This method was rewritten in Java from an intermediate step of the Murmur hash function in
  * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  */

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* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
*
 /guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java
* /guava-31-1-jre-sources-jar/com/google/common/base/CaseFormat.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/io/AppendableWriter.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /guava-31-1-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
 /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
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* /guava-31-1-jre-sources-jar/com/google/common/io/ByteStreams.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Predicates.java
*
 /guava-31-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Supplier.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Preconditions.java
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* /guava-31-1-jre-sources-jar/com/google/common/io/LineBuffer.java
* /guava-31-1-jre-sources-jar/com/google/common/io/MultiInputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Functions.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Flushables.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableReference.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LineReader.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
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/guava-31-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Objects.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Throwables.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CharStreams.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CountingOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Interners.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Predicate.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Closeables.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Resources.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
*
/guava-31-1-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Suppliers.java
* /guava-31-1-jre-sources-jar/com/google/common/base/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/DeadEvent.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionList.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Files.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/EventBus.java
* /guava-31-1-jre-sources-jar/com/google/common/io/package-info.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedLists.java
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* /guava-31-1-jre-sources-jar/com/google/common/base/Strings.java
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* /guava-31-1-jre-sources-jar/com/google/common/annotations/package-info.java
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* /guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashingInputStream.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractTable.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/
```

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* /guava-31-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /guava-31-1-jre-sources-jar/com/google/common/reflect/Parameter.java
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* /guava-31-1-jre-sources-jar/com/google/common/math/Stats.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/LongAddables.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/LongAddables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CartesianList.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CharSink.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/ClassPath.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /guava-31-1-jre-sources-jar/com/google/common/io/BaseEncoding.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java
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 /guava-31-1-jre-sources-jar/com/google/common/io/Closer.java
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* /guava-31-1-jre-sources-jar/com/google/common/io/CharSource.java
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* /guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedMapDifference.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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##
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* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
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1.1275 httpcomponents-core 4.0-alpha5

1.1275.1 Available under license :

No license file was found, but licenses were detected in source scan.

28 16:47:43 +0200 (Thu, 28 Jun 2007) $

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Found in path(s):
* /httpcore-4-0-alpha5-zip/httpcore-4.0-alpha5/maven/org.apache.httpcomponents/httpcore/pom.xml

1.1276 websocket-client 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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1.1277 cryptsetup 2.0.3-5.el7

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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 org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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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!
uganda.txt For Vim version 8.1. Last change: 2018 May 17

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uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

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b) If you have received a modified Vim that was distributed as

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Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

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- Once a change is included that goes under the GNU GPL, this forces all
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- If you distribute a modified version of Vim, you can include your name and
contact information with the "--with-modified-by" configure argument or the
MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents
die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small

organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If
you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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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.

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section 10
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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:

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
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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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and execute modified versions of a covered work in that User Product from

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1.1308 commons-io 2.1

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1.1310 axis2 1.6.2

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1.1311 opensaml-security-impl 3.4.6

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jar/org/opensaml/security/credential/impl/AbstractCriteriaFilteringCredentialResolver.java
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jar/org/opensaml/security/x509/impl/StaticPKIXValidationInformationResolver.java

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1.1312 axiom-impl 1.2.13

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1.1316 commons-digester 1.8.1

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1.1321 hibernate 5.1.2.Final

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     - 'main'

permissions: {} # none

See https://github.com/hibernate/hibernate-orm/pull/4615 for a description of the behavior we're getting.
concurrency:
 # Consider that two builds are in the same concurrency group (cannot run concurrently)
 # if they use the same workflow and are about the same branch ("ref") or pull request.
 group: "workflow = ${{ github.workflow }}, ref = ${{ github.event.ref }}, pr = ${{ github.event.pull_request.id
}}"
 # Cancel previous builds in the same concurrency group even if they are in process
 # for pull requests or pushes
 to forks (not the upstream repository).
 cancel-in-progress: ${{ github.event_name == 'pull_request' || github.repository != 'hibernate/hibernate-orm' }}

jobs:
 build:
   permissions:
     contents: read
   name: Java 11
   runs-on: ubuntu-latest
   strategy:
     fail-fast: false

```
    matrix:
      include:
        - rdbms: h2
        - rdbms: hsqldb
        - rdbms: derby
        - rdbms: mysql
        - rdbms: mariadb
        - rdbms: postgresql
        - rdbms: edb
        - rdbms: oracle
        - rdbms: db2
        - rdbms: mssql
        - rdbms: sybase
# Running with CockroachDB requires at least 2-4 vCPUs, which we don't have on GH Actions runners
#         - rdbms: cockroachdb
# Running with HANA requires at least 8GB memory just for the database, which we don't have on GH Actions
runners
#         - rdbms: hana
  steps:
    - uses: actions/checkout@v3
      with:
        persist-credentials: false
    - name: Reclaim Disk Space
       run: .github/ci-prerequisites.sh
    - name: Start database
      env:
        RDBMS: ${{ matrix.rdbms }}
      run: ci/database-start.sh
    - name: Set up Java 11
      uses: actions/setup-java@v3
      with:
        distribution: 'temurin'
        java-version: '11'
    - name: Get year/month for cache key
      id: get-date
      run: echo "yearmonth=$(/bin/date -u "+%Y-%m")" >> $GITHUB_OUTPUT
      shell: bash
    - name: Cache Maven local repository
      uses: actions/cache@v3
      id: cache-maven
      with:
        path: |
          ~/.m2/repository
          ~/.gradle/caches/
          ~/.gradle/wrapper/
        # refresh cache every month to avoid unlimited growth
        key: maven-localrepo-${{ steps.get-date.outputs.yearmonth }}
    - name: Run build script
```

```
    env:
      RDBMS: ${{ matrix.rdbms }}
    run: ./ci/build-github.sh
    shell: bash
  - name: Upload test reports (if Gradle failed)

   uses: actions/upload-artifact@v3
    if: failure()
    with:
      name: test-reports-java11-${{ matrix.rdbms }}
      path: |
        ./**/target/reports/tests/
        ./**/target/reports/checkstyle/
  - name: Omit produced artifacts from build cache
    run: ./ci/before-cache.sh
```

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1.1324 tiles-request-jsp 1.0.7

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1.1325 python-cpio 0.1

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1.1326 rome 1.0

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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndPersonImpl.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/EqualsBean.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/WireFeed.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/DCModuleImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/WireFeedGenerator.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Feed.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS090.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Guid.java

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* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS091NetscapeGenerator.java
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1.1327 kxml 2.5.0

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1.1328 policycoreutils 2.5-33.el7

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.1335 asm 5.0.3

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*/
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
```

```
   *           deprecated.
   * @param name
   *           the method's name.
   * @param desc
   *           the method's descriptor (see {@link Type}).
   * @param signature
   *           the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *           the internal names of the method's exception classes (see
   *           {@link Type#getInternalName() getInternalName}). May be
   *           <tt>null</tt>.
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Method.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Context.java
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/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Type.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Handler.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Edge.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Item.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
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/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */

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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *


   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
```

the annotation class.
*/

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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 /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/Processor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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/**
   * Constructs a new {@link Textifier}. Subclasses must not use this
   * constructor. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *   If a subclass calls this constructor.
    */

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* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifier.java

1.1336 mdadm 4.1-1.el7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the

terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1344 libcgroup 0.41-21.el7

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1.1345 httpcomponents-client 4.5.14

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1.1346 opensaml-profile-api 3.4.6

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* A predicate implementation that indicates whether the message channel does
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*
* <p>Typically but not exclusively used as a predicate for whether to encrypt something.</p>
*/
```

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* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/logic/NoConfidentialityMessageChannelPredicate.java

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*
 /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/logic/BrowserProfilePredicate.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/context/PreviousEventContext.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/action/AbstractProfileAction.java
* /opensaml-profile-api-3-4-6-sources-
jar/org/opensaml/profile/context/navigate/ParentProfileRequestContextLookup.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/logic/package-info.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/context/ProfileRequestContext.java
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jar/org/opensaml/profile/context/navigate/OutboundMessageContextLookup.java
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jar/org/opensaml/profile/context/navigate/InboundMessageContextLookup.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/action/EventIds.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/context/MetricContext.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/action/AbstractHandlerDelegatingProfileAction.java
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* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/context/ProxiedRequesterContext.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/action/package-info.java
* /opensaml-profile-api-3-4-6-sources-jar/org/opensaml/profile/context/navigate/ProfileIdLookup.java

1.1347 aop-alliance 2.3.0-b10

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Found in path(s):
* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/RuleFinder.java
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```
/* $Id: SetPropertiesRule.java,v 1.19 2004/05/10 06:30:06 skitching Exp $
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Found in path(s):
* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/SetPropertiesRule.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/PluginException.java
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Found in path(s):
* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/RegexMatcher.java
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* /commons-digester-1-6-sources-1-
jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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/* $Id: PathCallParamRule.java,v 1.8 2004/05/10 06:52:50 skitching Exp $
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/PathCallParamRule.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/AbstractObjectCreationFactory.java
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Found in path(s):
* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/SetPropertyRule.java
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<!-- $Id: package.html,v 1.30.2.4 2004/08/29 18:40:05 rdonkin Exp $

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Found in path(s):
* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/package.html
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/PluginManager.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/ObjectCreateRule.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/Digester.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/substitution/package.html
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/* $Id: FinderFromDfltClass.java,v 1.5 2004/05/10 06:34:01 skitching Exp $
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java

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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/strategies/package.html
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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/* $Id: SetNextRule.java,v 1.22 2004/05/10 06:30:06 skitching Exp $
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/SetNextRule.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java
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<?xml version="1.0" encoding="UTF-8" ?>

<!-- $Id: digester-rules.dtd,v 1.12.6.1 2004/08/18 19:59:29 rdonkin Exp $

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<!--
     "Digester" component of the Jakarta Commons Subproject
     DTD for the definition of Digester rules in XML.

```
      $Id: digester-rules.dtd,v 1.12.6.1 2004/08/18 19:59:29 rdonkin Exp $

      Applications
 wishing to reference this DTD in their own documents
      should use the following DOCTYPE declaration:

      <!DOCTYPE digester-rules PUBLIC
       "-//Jakarta Apache //DTD digester-rules XML V1.0//EN"
       "digester-rules.dtd">

-->

<!-- This document type defines an XML format for defining Digester rules.
   Digester is a framework for pattern-matching-based parsing of XML into
   Java objects. See http://jakarta.apache.org/commons/digester.html.  -->

<!ENTITY % rule-elements "bean-property-setter-rule | call-method-rule |
                call-param-rule | object-param-rule |
                factory-create-rule | object-create-rule |
                set-properties-rule | set-property-rule | set-top-rule |
                set-next-rule" >

<!-- digester-rules is the root element. -->
<!ELEMENT digester-rules (pattern | include | bean-property-setter-rule | call-method-rule | call-param-rule |
object-param-rule | factory-create-rule | object-create-rule
 | set-properties-rule | set-property-rule | set-top-rule | set-next-rule )*>


<!-- <pattern> defines a matching pattern, or part of a matching pattern. Any
   rule nested in a pattern element prepends its parent's to its pattern.
   Patterns may be recursively nested.
   Example:
     <pattern value="foo">
       <pattern value="bar">
         <object-create-rule pattern="baz" classname="Fubar" />
       </pattern>
     </pattern>

   The above sample fragment defines an ObjectCreateRule associated
   with the pattern "foo/bar/baz".

 Note that the use of pattern elements is optional; an alternative is for
 each rule element to contain a 'pattern' attribute.   -->
<!ELEMENT pattern (pattern | include | bean-property-setter-rule | call-method-rule | call-param-rule |
                factory-create-rule | object-create-rule |
                set-properties-rule | set-property-rule | set-top-rule |
                set-next-rule )*>
<!ATTLIST
```

```
 pattern
   value CDATA #REQUIRED>


<!--
 <include> allows one set of digester rules to be included inside
 another. The 'path' attribute contains the URI of the document to
 include. Inclusion behaves as if the included rules document is
 'macro-expanded' within the outer document.
 Programmatically initialized rules can be included as well, via the
 'class' attribute. The 'class' attribute should contain the name
 of a class that implements
 org.apache.commons.digester.xmlrules.DigesterRulesSource.
-->
<!ELEMENT include EMPTY>
<!ATTLIST include
   path  CDATA #IMPLIED
   class CDATA #IMPLIED>


<!-- Each 'rule' element below corresponds to a concrete subclass
    of org.apache.framework.digester.Rule.
    Each 'rule' element has an optional 'pattern' attribute, which
    defines the pattern for that rule instance. If the rule element
    is nested inside one or more <pattern> elements, those patterns
    will be prepended to the pattern specified in the rule's 'pattern'
     attribute. -->

<!-- Bean Property Setter Rule -->
<!ELEMENT bean-property-setter-rule EMPTY>
<!ATTLIST bean-property-setter-rule
   pattern      CDATA #IMPLIED
   propertyname CDATA #IMPLIED>

<!-- CallMethodRule -->
<!ELEMENT call-method-rule EMPTY>
<!ATTLIST call-method-rule
   pattern    CDATA #IMPLIED
   methodname CDATA #REQUIRED
   paramcount CDATA #IMPLIED
   paramtypes CDATA #IMPLIED>

<!--
   CallParamRule
   attrname - set param from attribute value (cannot be combined with from-stack)
   from-stack - set param from stack (cannot be combined with attrname)
   -->
<!ELEMENT call-param-rule EMPTY>
```

```
<!ATTLIST call-param-rule
  pattern  CDATA #IMPLIED
  paramnumber CDATA #REQUIRED
  attrname CDATA #IMPLIED
  from-stack CDATA #IMPLIED>

<!--
  ObjectParamRule
  attrname
        - an arbitrary Object defined programatically, assigned if the
          element pattern AND specified attribute name are matched
  param
        - an arbitrary
 Object defined programatically, assigned when the
          element pattern associated with the Rule is matched
  type
        - class name for object
  value
        - initial value for the object
  -->
<!ELEMENT object-param-rule EMPTY>
<!ATTLIST object-param-rule
  pattern  CDATA #IMPLIED
  paramnumber CDATA #REQUIRED
  param CDATA #REQUIRED
  attrname CDATA #IMPLIED
  type CDATA #REQUIRED
  value CDATA #IMPLIED>

<!--
  FactoryCreateRule

  ignore-exceptions - if this attribute is (ignore case) 'true' then any exceptions
                      thrown by the object create rule will be ignore.
                      This will allow processing to continue.
  -->
<!ELEMENT factory-create-rule EMPTY>
<!ATTLIST factory-create-rule
  pattern   CDATA #IMPLIED
  classname CDATA #REQUIRED
  attrname  CDATA #IMPLIED
  ignore-exceptions  CDATA #IMPLIED>

<!-- ObjectCreateRule -->
<!ELEMENT object-create-rule EMPTY>
<!ATTLIST object-create-rule
   pattern   CDATA #IMPLIED
  classname CDATA #REQUIRED
```

```
  attrname  CDATA #IMPLIED>

<!-- SetPropertiesRule -->
<!ELEMENT set-properties-rule (alias)*>
<!ATTLIST set-properties-rule
  pattern   CDATA #IMPLIED>

<!-- An alias is a custom attribute->property name mapping -->
<!ELEMENT alias EMPTY>
<!ATTLIST alias
attr-name CDATA #REQUIRED
prop-name CDATA #IMPLIED>

<!-- SetPropertyRule -->
<!ELEMENT set-property-rule EMPTY>
<!ATTLIST set-property-rule
  pattern   CDATA #IMPLIED
  name      CDATA #IMPLIED
  value     CDATA #IMPLIED>

<!-- SetTopRule -->
<!ELEMENT set-top-rule EMPTY>
<!ATTLIST set-top-rule
  pattern    CDATA #IMPLIED
  methodname CDATA #REQUIRED
  paramtype  CDATA #IMPLIED>

<!-- SetNextRule -->
<!ELEMENT set-next-rule EMPTY>
<!ATTLIST set-next-rule
  pattern    CDATA #IMPLIED
  methodname CDATA #REQUIRED
  paramtype  CDATA #IMPLIED>

<!-- SetRootRule -->
<!ELEMENT set-root-rule EMPTY>
<!ATTLIST set-root-rule
  pattern    CDATA #IMPLIED
   methodname CDATA #REQUIRED
  paramtype  CDATA #IMPLIED>
```

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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
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<!-- $Id: package.html,v 1.1.6.2 2004/08/29 18:41:25 rdonkin Exp $
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```
/* $Id: RuleLoader.java,v 1.5 2004/05/10 06:36:38 skitching Exp $
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/RuleLoader.java
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```
/* $Id: BeanPropertySetterRule.java,v 1.20 2004/05/10 06:30:06 skitching Exp $
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/plugins/strategies/FinderFromMethod.java
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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/substitution/VariableExpander.java
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<!-- $Id: package.html,v 1.4.6.1 2004/08/18 19:59:29 rdonkin Exp $

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* /commons-digester-1-6-sources-1-jar/org/apache/commons/digester/xmlrules/package.html

1.1351 multipath-tools 0.4.9-127.el7

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 /cometd-java-server-4-0-7-sources-jar/org/cometd/server/JettyJSONContextServer.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/CometDServlet.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/BatchArrayQueue.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/ActivityExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/TimesyncExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/AbstractService.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/BinaryExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/filter/NoScriptsFilter.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/AcknowledgedMessagesExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/AcknowledgedMessagesSessionExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/transport/AbstractHttpTransport.java
*
 /cometd-java-server-4-0-7-sources-jar/org/cometd/server/DefaultSecurityPolicy.java
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* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/BayeuxServerImpl.java

* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/filter/NoMarkupFilter.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/filter/DataFilter.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/filter/DataFilterMessageListener.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/jmx/BayeuxServerImplMBean.java
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*
/cometd-java-server-4-0-7-sources-jar/org/cometd/server/JacksonJSONContextServer.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/authorizer/GrantAuthorizer.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ext/TimestampExtension.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/ServerMessageImpl.java
* /cometd-java-server-4-0-7-sources-jar/org/cometd/server/filter/RegexFilter.java

1.1357 python 2.7.5

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
 of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.1359 cglib-nodep 2.2

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* /cglib-nodep-2-2-sources-jar/net/sf/cglib/beans/ImmutableBean.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/DebuggingClassWriter.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/ReflectUtils.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/beans/BeanCopier.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/VisibilityPredicate.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/DefaultNamingPolicy.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/Mixin.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/AbstractClassLoader.java
*
/cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/FixedValueGenerator.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/beans/BeanMapEmitter.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/Proxy.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/reflect/FastClassEmitter.java
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* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/CallbackHelper.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/RejectModifierPredicate.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/MethodInfo.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/MethodInfoTransformer.java
*
 /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/InterfaceMaker.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java
```

* /cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/impl/AddInitTransformer.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/core/ClassInfo.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
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* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/MethodInterceptor.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/Factory.java
* /cglib-nodep-2-2-sources-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java

1.1360 jetty-rewrite 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1361 gobject-introspection 1.56.1-1.el7

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1.1362 jcl-over-slf4j 1.7.36

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* /jcl-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

1.1363 subprocess32 3.2.6

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==========================

Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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1.1365 hk2-api 2.3.0-b05

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1.1367 google-http-client 1.43.3

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Manifest-Version: 1.0
Implementation-Title: Google HTTP Client Library for Java
Bundle-Description: Google HTTP Client Library for Java. Functionality
 that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.http-client.google-http-client
Implementation-Version: 1.43.3
Bnd-LastModified: 1687372727990
Bundle-ManifestVersion: 2
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: javax.annotation;resolution:=optional;version="[3.0,4)
",com.google.api.client.http,com.google.api.client.json,com.google.ap
i.client.json.webtoken,com.google.api.client.testing.util,com.google.

api.client.util,com.google.api.client.util.escape,com.google.common.b
ase;version="[30.1,31)",com.google.common.collect;version="[30.1,31)"
 ,com.google.common.io;version="[30.1,31)",com.google.common.util.conc
urrent;version="[30.1,31)",io.opencensus.common,io.opencensus.contrib
.http.util,io.opencensus.trace,io.opencensus.trace.export,io.opencens
us.trace.propagation,javax.net.ssl,org.apache.http,org.apache.http.cl
ient,org.apache.http.client.methods,org.apache.http.conn,org.apache.h
ttp.conn.params,org.apache.http.conn.routing,org.apache.http.conn.sch
eme,org.apache.http.conn.ssl,org.apache.http.entity,org.apache.http.i
mpl.client,org.apache.http.impl.conn,org.apache.http.impl.conn.tsccm,
org.apache.http.message,org.apache.http.params,org.apache.http.protoc
ol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.util;uses:="javax.net.ssl";versi
on="1.43.3",com.google.api.client.util.store;version="1.43.3",com.goo
gle.api.client.util.escape;version="1.43.3",com.google.api.client.jso
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on.rpc2;uses:="com.google.api.client.util";version="1.43.3",com.googl
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"1.43.3",com.google.api.client.testing.json;uses:="com.google.api.cli
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nt.http,com.google.api.client.util";version="1.43.3",com.google.api.c
lient.testing.http.apache;uses:="org.apache.http,org.apache.http.clie
nt,org.apache.http.conn,org.apache.http.conn.routing,org.apache.http.
impl.client,org.apache.http.params,org.apache.http.protocol";version=
"1.43.3",com.google.api.client.testing.http.javanet;version="1.43.3",
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ensus.trace,io.opencensus.trace.propagation,javax.annotation";version
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t.http,com.google.api.client.json";version="1.43.3",com.google.api.cl
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g.apache.http.client,org.apache.http.conn.ssl,org.apache.http.impl.cl
ient,org.apache.http.params";version="1.43.3",com.google.api.client.h
ttp.javanet;uses:="com.google.api.client.http,javax.net.ssl";version=
"1.43.3"
Bundle-Name: Google HTTP Client Library for Java
Bundle-Version: 1.43.3
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-http-client-1-43-3-2-jar/META-INF/MANIFEST.MF

1.1368 commons-io 2.8.0

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1.1369 axis2-xmlbeans 1.4

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1.1370 libffi 3.0.13-18.el7

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1.1371 spring-web 5.3.19

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@end enumerate

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@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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 and a brief idea of what it does.}
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when it starts in an interactive mode:

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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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*
/ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/SimpleCoreServiceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/JaxbParsers.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/multi/XmlMultiConfiguration.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/DefaultWriteBehindConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/provider/DefaultSerializationProviderConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/CacheManagerServiceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/CoreCacheConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/DefaultSerializerConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/ResourceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/DefaultCacheLoaderWriterConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/model/CacheDefinition.java
*
/ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/JaxbHelper.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/provider/CacheManagerPersistenceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/model/SizeOfEngineLimits.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/CacheServiceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/DefaultCacheEventDispatcherConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/provider/OffHeapDiskStoreProviderConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/DefaultResilienceStrategyConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/CoreServiceConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/ServiceCreationConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/model/Expiry.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/provider/ThreadPoolServiceCreationConfigurationParser.java
*
/ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/model/ListenersConfig.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/ConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/exceptions/XmlConfigurationException.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/XmlModel.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/DomUtil.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/provider/DefaultCopyProviderConfigurationParser.java
* /ehcache-xml-3-9-3-sources-jar/org/ehcache/xml/service/OffHeapDiskStoreConfigurationParser.java

1.1386 json-path 2.0.0

1.1387 velocity 1.5

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1.1388 commons-codec 1.9

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1.1389 chf-http-core 21.0.0-alpha-23

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1.1399 curl 7.29.0-59.el7_9.1

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* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/Dump.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ClassFile.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Member.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/ClassClassPath.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/CtClass.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/tools/Callback.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Cast.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java
*
 /javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Desc.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/expr/Instanceof.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java
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Found in path(s):
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
 /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
*
 /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java

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1.1407 jibx-bind 1.2

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1.1414 gdb 7.6.1-119.el7

1.1415 sg3-utils 1.37-17.el7

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10th April 2012
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1.1419 bcpkix-fips 1.0.5

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 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):
* /bcpkix-fips-1-0-5-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.1420 saaj 1.3

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1.1422 libmatthew 0.8.1

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1.1423 neko-html 1.9.13

1.1424 hk2-api 2.3.0-b10

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1.1425 xalan 2.6.0

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1.1426 libxkbcommon 0.7.1-3.el7

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1.1427 axis2-soapmonitor-servlet 1.7.9

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1.1428 jetty-quickstart 9.4.48.v20220622

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.1429 jakarta-annotation-api 1.3.5

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* https://github.com/eclipse-ee4j/common-annotations-api

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1.1449 wildfly-client-config 1.0.1.Final

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1.1450 hibernate-validator 6.0.2.Final

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1.1451 dosfs-tools 3.0.20-10.el7

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1.1453 cometd-java-annotations 4.0.7

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* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/Param.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/Session.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/Listener.java
*
/cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/ServerAnnotationProcessor.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/Service.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/ClientAnnotationProcessor.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/AnnotationCometDServlet.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/RemoteCall.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/AnnotationProcessor.java
* /cometd-java-annotations-4-0-7-sources-jar/org/cometd/annotation/Subscription.java

1.1454 jaxen 1.1.6

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* $Revision: 1247 $
* $Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.java
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* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/StringFunction.java
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* $Header$
* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo $
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo $
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EvaluateFunction.java
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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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/*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $

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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
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* $Header$
* $Revision: 1386 $
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NumberFunction.java
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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
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* $Header$
* $Revision: 1321 $
* $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Header$
* $Revision: 1193 $
* $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPlusExpr.java
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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.java
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* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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*
* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
```

```
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java
No license file was found, but licenses were detected in source scan.

```
/*
* $Header$
* $Revision: 1332 $
* $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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* $Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java
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* $Header$
* $Revision: 1128 $
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*
* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringBeforeFunction.java
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* $Header$
* $Revision: 1261 $
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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/*
* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*
* $Header$
* $Revision: 1277 $
* $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $
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* $Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultBinaryExpr.java
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/*
* $Header$
* $Revision: 1161 $

```
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
*/
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Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathException.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
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* $Header$
* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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* $Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java
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* $Header$
* $Revision: 1237 $
* $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java
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* $Header$
* $Revision: 1133 $
* $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java
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* $Header$
* $Revision: 1257 $
* $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ContainsFunction.java

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* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java
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* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java
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/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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* $Revision: 1128 $
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java
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* $Header$
* $Revision: 1154 $
* $Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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```
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: Function.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/Function.java
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```
/*
* $Header$
* $Revision: 1234 $
* $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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```

*
* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LocalNameFunction.java
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* $Header$
* $Revision: 1302 $
* $Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java
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/*
* $Header$
* $Revision: 1235 $
* $Date: 2006-11-08 09:02:21 -0800 (Wed, 08 Nov 2006) $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java
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/*
$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $

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* $Header$
* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1366 $
* $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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*
* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java
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/*
$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnaryExpr.java
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingSiblingAxisIterator.java
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* $Header$
* $Revision: 1326 $
* $Date: 2008-04-26 18:56:10 -0700 (Sat, 26 Apr 2008) $
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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* $Id: Expr.java 1261 2006-11-30 18:49:27Z elharo $
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/*
$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java
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* $Header$
* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
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/*
* $Header$
* $Revision: 1226 $
* $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
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* $Revision: 1128 $
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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
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* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java
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* $Id: $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java
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/*
$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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```
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* $Header$
* $Revision: 1268 $
* $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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```

*
* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
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* $Header$
* $Revision: 1258 $
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableNamespaceAxis.java
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$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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* $Revision: 1370 $
* $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
*
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*
* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java
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```
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* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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```
*
* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/RelationalExpr.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.java
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* $Id: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/TextNodeTest.java
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java
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* $Revision: 1257 $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
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Found in path(s):

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```

*
* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingletonList.java
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* $Header$
* $Revision: 1156 $
* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/xom/DocumentNavigator.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java
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* $Header$
* $Revision: 1128 $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/FunctionContext.java
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* $Revision: 1128 $
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java
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* $Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/CeilingFunction.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
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/*
* $Header$
* $Revision: 1161 $

* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java

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* $Header$
* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
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* $Revision: 1128 $
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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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*
* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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*
* $Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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* $Revision: 1261 $
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* $Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultDivExpr.java
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* $Header$
* $Revision: 1198 $
* $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java
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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/UpperFunction.java
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java
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* $Revision: 1325 $
* $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java
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* $Header$
* $Revision: 1273 $
* $Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
*
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* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
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* $Revision: 1128 $
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java
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* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AllNodeStep.java
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* $Header$
* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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* $Header$
* $Revision: 1279 $
* $Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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* $Header$
* $Revision: 1306 $
* $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/CountFunction.java
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultExpr.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Revision: 1241 $
* $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1335 $
* $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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*
```

* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Verifier.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantAxisIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Header$
* $Revision: 1132 $
* $Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) $
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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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*
* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/DefaultNavigator.java
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* $Header$
* $Revision: 1228 $
* $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
*/

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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNotEqualsExpr.java
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* $Revision: 1261 $
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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id$
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NodeComparator.java

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* $Revision: 1128 $
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/
```

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*
* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1337 $
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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1.1455 jackson-mapper-asl 1.9.0

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1.1456 bouncycastle-fips 1.0.2.3

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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# the file name (including the path relative to the current directory,
# always starting with `./').
#
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#
.gitignore
#
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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1.1462 rhino 1.7.13

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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/SourceReader.java
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* /rhino-1-7-13-sources-
jar/org/mozilla/javascript/commonjs/module/provider/UrlConnectionSecurityDomainProvider.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/engine/RhinoCompiledScript.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/engine/RhinoScriptEngineFactory.java
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 /rhino-1-7-13-sources-jar/org/mozilla/javascript/optimizer/OptFunctionNode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/annotations/JSFunction.java
* /rhino-1-7-13-sources-
jar/org/mozilla/javascript/commonjs/module/provider/CachingModuleScriptProviderBase.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/provider/UrlConnectionExpiryCalculator.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/annotations/JSSetter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/ModuleScript.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/provider/ParsedContentType.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSource.java
* /rhino-1-7-13-sources-
jar/org/mozilla/javascript/commonjs/module/provider/SoftCachingModuleScriptProvider.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/SecureCaller.java
*

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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ScriptStackElement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/engine/RhinoScriptEngine.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Sorting.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XmlProcessor.java
* /rhino-1-7-13-sources-
jar/org/mozilla/javascript/commonjs/module/provider/StrongCachingModuleScriptProvider.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProvider.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/DefiningClassLoader.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/commonjs/module/ModuleScope.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/ShellConsole.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/optimizer/OptTransformer.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XmlNode.java
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/rhino-1-7-13-sources-jar/org/mozilla/javascript/PolicySecurityController.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/IteratorLikeIterable.java
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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XMLWithScope.java
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/rhino-1-7-13-sources-jar/org/mozilla/javascript/Decompiler.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/XmlExpression.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/optimizer/Codegen.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/StringLiteral.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/IdFunctionCall.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/PropertyGet.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeMap.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeInt16Array.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XMLLibImpl.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeFunction.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/XmlLiteral.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ConditionalExpression.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/HashSlotMap.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeInt8Array.java
*
/rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/NumberLiteral.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeGlobal.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeInt32Array.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/DestructuringForm.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Context.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/BoundFunction.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeError.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XMLName.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ArrayComprehensionLoop.java

* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeBoolean.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Interpreter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Ref.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/v8dtoa/FastDtoaBuilder.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/JSConsole.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/VMBridge.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ES6Iterator.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ConsString.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ContinueStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/regexp/NativeRegExpCtor.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ErrorReporter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/Assignment.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/optimizer/ClassCompiler.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/serialize/ScriptableOutputStream.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeFloat32Array.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/ByteIo.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ForInLoop.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/regexp/RegExpImpl.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/debug/DebuggableObject.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeJavaMethod.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/Loop.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeContinuation.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/ClassFileMethod.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeIterator.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeDate.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Icode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeArrayIterator.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/SwitchStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/SecurityProxy.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Scriptable.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XML.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeTypedArrayView.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/JavaMembers.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeJavaConstructor.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/WrapFactory.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/InterpretedFunction.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeJavaArray.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/debug/DebuggableScript.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/XmlDotQuery.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeUint8ClampedArray.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/regexp/NativeRegExp.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/KeywordLiteral.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/SecurityController.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/Comment.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ObjToIntMap.java

*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/Namespace.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Function.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/LazilyLoadedCtor.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/Yield.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XMLList.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/SuperBlock.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/ByteCode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeWeakSet.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/SlotMap.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/IfStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/WithStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/ConsoleTextArea.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/debug/DebugFrame.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/EmptyStatement.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/Symbol.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/UnaryExpression.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/JavaPolicySecurity.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/IdFunctionObject.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ParseProblem.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ContextListener.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/InfixExpression.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/FunctionNode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/NodeVisitor.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/InterfaceAdapter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/QuitAction.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/TypeInfo.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeObject.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/ClassFileWriter.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeSet.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeJavaClass.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xmlimpl/XMLCtor.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Undefined.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/GeneratorExpression.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeArrayBuffer.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/debugger/SourceProvider.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/AstNode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ScriptNode.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeString.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/xml/XMLObject.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeWith.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Node.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Hashtable.java
*
 /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/NativeDataView.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeScript.java

* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/LabeledStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/TokenStream.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/EvaluatorException.java
* /rhino-1-7-13-sources-jar/org/mozilla/classfile/ConstantEntry.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ContextAction.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ExpressionStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/JavaAdapter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/typedarrays/Conversions.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/Callable.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeSymbol.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/ErrorNode.java
*
/rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/BreakStatement.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/jdk18/VMBridge_jdk18.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ClassShutter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/shell/Main.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/WhileLoop.java
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* @(#)JTreeTable.java 1.2 98/10/27
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// throws a special exception. This ensures execution of all pending

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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/idswitch/FileBody.java
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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/IdScriptableObject.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/json/JsonParser.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeJSON.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/idswitch/IdValuePair.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/NativeMath.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/idswitch/CodePrinter.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/tools/idswitch/SwitchGenerator.java
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/**
* This is interface defines a protocol for the reporting of
* errors during JavaScript translation in IDE-mode.
* If the {@link org.mozilla.javascript.Parser}'s error reporter is
* set to an instance of this interface, then this interface's
* {@link #warning} and {@link #error} methods are called instead
* of the {@link org.mozilla.javascript.ErrorReporter} versions. <p>
*
* These methods take a source char offset and a length. The
* rationale is that in interactive IDE-type environments, the source
* is available and the IDE will want to indicate where the error
* occurred and how much code participates in it. The start
 and length
* are generally chosen to fit within a single line, for readability,
* but the client is free to use the AST to determine the affected
* node(s) from the start position and change the error or warning's
* display bounds.<p>

*
* @author Steve Yegge
*/

Found in path(s):
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ast/IdeErrorReporter.java
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/*
        * During the great date rewrite of 1.3, we tried to track the
        * evolving ECMA standard, which then had a definition of
        * getYear which always subtracted 1900. Which we
        * implemented, not realizing that it was incompatible with
        * the old behavior... now, rather than thrash the behavior

```
        * yet again, we've decided to leave it with the - 1900
        * behavior and point people to the getFullYear method.  But
        * we try to protect existing scripts that have specified a
        * version...
        */
```

Found in path(s):
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/ContextFactory.java
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```
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* TreeTableModel.java
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* /rhino-1-7-13-sources-jar/org/mozilla/javascript/v8dtoa/DiyFp.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/v8dtoa/FastDtoa.java
* /rhino-1-7-13-sources-jar/org/mozilla/javascript/v8dtoa/CachedPowers.java

1.1463 cactus.core.framework.javaee.12-13-14 1.8.1

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1.1465 tiles-request-api 1.0.7

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1.1466 open-ws 1.5.5

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 /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/ActionBuilder.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/AttributedQNameImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ReasonBuilder.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/DelegateToUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/BinaryExchangeImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/MessageIDBuilder.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/EndpointReferenceTypeMarshaller.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/EndpointReferenceImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsfed/impl/AddressUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignatureAlgorithmMarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/TransformationParametersBuilder.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/WSSecurityObject.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/EncodedStringUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/ReferenceParametersUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/ProblemIRIMarshaller.java
* /openws-1-5-5-sources-
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/MessageIDImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/AbstractWSAddressingObjectMarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/KeyTypeUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wspolicy/impl/PolicyAttachmentMarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/KeyIdentifierBuilder.java

* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/ComputedKeyUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/AuthenticationTypeMarshaller.java
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/openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/OnBehalfOfUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsfed/impl/RequestedSecurityTokenImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/UsernameToken.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/soap/client/SOAPFaultException.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/EncryptionAlgorithmMarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeMarshaller.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/LifetimeMarshaller.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/impl/SignatureConfirmationUnmarshaller.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignChallengeUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/ComputedKey.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignWithUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/Nonce.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/soap/soap11/Envelope.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/impl/ProblemHeaderQNameUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/SignChallengeTypeImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/RequestedProofTokenMarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/Security.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/KeyTypeImpl.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/CancelTargetBuilder.java

* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/BinarySecret.java
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* /openws-1-5-5-sources-jar/org/opensaml/ws/soap/soap11/impl/EnvelopeBuilder.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/TokenTypeUnmarshaller.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/RenewTargetBuilder.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wsaddressing/IsReferenceParameterBearing.java
* /openws-1-5-5-sources-jar/org/opensaml/util/SimpleURLCanonicalizer.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wssecurity/TokenTypeBearing.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/ComputedKeyAlgorithm.java
* /openws-1-5-5-sources-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenResponseCollectionImpl.java
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*/
/**
   * Indicates whether this encoder, given the current message context, provides
 end-to-end message confidentiality.
   *
   * @param messageContext the current message context
   *
   * @return true if the encoder provides end-to-end message confidentiality, false if not
   *
   * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
ability
   *   to provide message confidentiality.
   */

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XMLObject interfaces for WS-Security 2004 elements.

The OASIS Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) specification describes enhancements to SOAP messaging to provide message integrity and confidentialy. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

Web Services Security UsernameToken Profile 1.1
<a target="wss-oasis" href="http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-

SAMLTokenProfile.pdf">Web Services Security: SAML Token Profile 1.1
Web Services Security X.509 Certificate Token Profile 1.1
Web Services Security Kerberos Token Profile 1.1

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*/
/**
    * Gets whether the transport represents a confidential connection (e.g. an SSL
 connection).
    *
    * @return whether the transport represents a confidential connection
```

```
    */
/**
    * Sets whether the transport represents a confidential connection.
    *
    * @param isConfidential whether the transport represents a confidential connection
    */
```

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```
<!-- Schema for the SOAP/1.1 envelope

  This schema has been produced using W3C's SOAP Version 1.2 schema
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  http://www.w3.org/2001/06/soap-envelope

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  Changes made are the following:
  - reverted namespace to http://schemas.xmlsoap.org/soap/envelope/
  - reverted mustUnderstand to only allow 0 and 1 as lexical values
  - made encodingStyle a global attribute 20020825

  Further changes:

  - removed default value from mustUnderstand attribute declaration - 20030314

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1.1471 openam-wsfederation-schema 14.0.0-M6

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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(1)

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* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh,
 admin/check-style-common.awk,
 admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
 except the first one, were first implemented in the Buildtool project.

They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
 name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
 </xsl:template>

 <xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
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 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
```

```
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.1485 oro 2.0.7

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$Id: CONTRIBUTORS,v 1.7 2002/06/27 22:43:39 dfs Exp $

Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for

\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

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1.1486 jaxws-tools 2.2.6

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1.1490 axiom-impl 1.2.5

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1.1491 python-lxml 3.2.1-4.el7

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==
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Specification: JSR-000154 Java(TM) Servlet 2.5 Specification ("Specification")

Version: 2.5

Status: Maintenance Review

Release: August 11, 2005

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Specification: JSR-000154 Java(TM) Servlet Specification ("Specification")

Version: 2.5

Status: Maintenance Review

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Version: 2.5
Status:
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1.1500 opensaml-xmlsec-api 3.4.6

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.1516 guava 30.1-jre

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  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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  */
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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
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 /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
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* /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
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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/util/concurrent/AbstractExecutionThreadService.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Comparators.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConstants.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractNetwork.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/EdgesConnecting.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java
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/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractValueGraph.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPair.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardMutableNetwork.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedNetworkConnections.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingNetwork.java
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/guava-30-1-jre-sources-1-jar/com/google/common/graph/MultiEdgesConnecting.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedGraphConnections.java
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* /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/StandardTable.java
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 /guava-30-1-jre-sources-1-jar/com/google/common/collect/Table.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Range.java
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/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.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
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedIterables.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java
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/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular

* version.
*/

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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/graph/Graph.java
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Found in path(s):
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/BiMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Multisets.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Multiset.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/Ordering.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/LinkedListMultimap.java
* /guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /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
*
/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/WrappingExecutorService.java
* /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
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLong.java
* /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
*
 /guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java
* /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/Partially.java
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* /guava-30-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java
* /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/DiscreteDomain.java
* /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/BaseGraph.java
* /guava-30-1-jre-sources-1-jar/com/google/common/graph/Traverser.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.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
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 /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
* /guava-30-1-jre-sources-1-jar/com/google/common/io/ByteStreams.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/CommonPattern.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
* version.
*/
```

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* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
* version.
```

*/

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* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
* /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
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Floats.java
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /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
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java
* /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java
*
 /guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java
* /guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java
* /guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java
* /guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java
* /guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java

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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):
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express
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* the License.
*/
/*
  * 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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* /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/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
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 /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
* /guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java

1.1517 websocket-api 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/EventTranslatorThreeArg.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/BatchEventProcessor.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/dsl/EventHandlerGroup.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
*
 /disruptor-3-4-4-sources-jar/com/lmax/disruptor/EventTranslatorVararg.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/WorkerPool.java
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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/util/Util.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/LifecycleAware.java
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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/BlockingWaitStrategy.java
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 /disruptor-3-4-4-sources-jar/com/lmax/disruptor/YieldingWaitStrategy.java
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* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SequenceBarrier.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SingleProducerSequencer.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/RingBuffer.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/EventProcessor.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/dsl/ConsumerRepository.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SequenceGroup.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/MultiProducerSequencer.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SequenceReportingEventHandler.java
*
 /disruptor-3-4-4-sources-jar/com/lmax/disruptor/EventTranslator.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/AggregateEventHandler.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/dsl/Disruptor.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/ProcessingSequenceBarrier.java
* /disruptor-3-4-4-sources-jar/com/lmax/disruptor/SleepingWaitStrategy.java
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1.1527 apache-jsp 9.4.48.v20220622

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
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* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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org.eclipse.jetty.toolchain:jetty-schemas

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a) Accompany
the work with the complete corresponding
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1.1529 ehcache-impl 3.9.3

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Found in path(s):
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/concurrent/ThreadLocalRandomUtil.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/concurrent/ConcurrentHashMap.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/classes/commonslang/ClassUtils.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/classes/commonslang/reflect/MethodUtils.java
*
 /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/classes/commonslang/ArrayUtils.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/classes/commonslang/reflect/ConstructorUtils.java
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Found in path(s):
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/executor/PooledExecutionServiceConfiguration.java
* /ehcache-impl-3-9-3-sources-
jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/WriteAllOperation.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/SizedResourcePoolImpl.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/config/builders/CacheEventListenerConfigurationBuilder.java
*
/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/serializer/DefaultSerializerConfiguration.java
* /ehcache-impl-3-9-3-sources-
jar/org/ehcache/impl/internal/store/disk/EhcachePersistentConcurrentOffHeapClockCache.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/events/AbstractStoreEventDispatcher.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/executor/DefaultExecutionServiceFactory.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/copy/package-info.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/tiering/CompoundCachingTier.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/serialization/TransientStateRepository.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/holders/OnHeapKey.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/executor/PooledExecutionService.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/basic/NopStore.java
*
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jar/org/ehcache/impl/config/loaderwriter/writebehind/WriteBehindProviderConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/persistence/FileUtils.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/portability/SerializerPortability.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/events/InvocationScopedEventSink.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/Backend.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/OffHeapValueHolder.java
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* /ehcache-impl-3-9-3-sources-
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*
/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/serialization/CompactJavaSerializer.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/MemorySizeParser.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/holders/OnHeapValueHolder.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/event/DefaultCacheEventDispatcherConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/loaderwriter/LoaderWriterStoreProvider.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/BinaryValueHolder.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/store/heap/package-info.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/spi/event/DefaultCacheEventListenerProvider.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/copy/ReadWriteCopier.java
*
/ehcache-impl-3-9-3-sources-
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/config/builders/ConfigurationBuilder.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/util/Pacer.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/events/FudgingInvocationScopedEventSink.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/executor/package-info.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/events/CacheEventDispatcherFactoryImpl.java
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* /ehcache-impl-3-9-3-sources-
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/holders/LookupOnlyOnHeapKey.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/copy/DefaultCopyProviderConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/holders/BaseOnHeapKey.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/serialization/CharSerializer.java
*
/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/store/DefaultStoreEventDispatcher.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/event/DefaultCacheEventListenerConfiguration.java
* /ehcache-impl-3-9-3-sources-
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/heap/holders/SerializedOnHeapValueHolder.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/TimeSourceConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/executor/PartitionedOrderedExecutor.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/serialization/IntegerSerializer.java

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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/loaderwriter/writebehind/operations/DeleteOperation.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/EhcacheOffHeapBackingMap.java
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/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/serialization/package-info.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/sizeof/listeners/exceptions/VisitorListenerException.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/spi/copy/DefaultCopyProviderFactory.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/config/builders/UserManagedCacheConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/loaderwriter/writebehind/StripedWriteBehind.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/disk/DiskWriteThreadPool.java
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/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/BinaryOffHeapValueHolder.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/factories/EhcacheSegmentFactory.java
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* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/copy/SerializingCopier.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/resilience/DefaultResilienceStrategyConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/store/disk/OffHeapDiskStoreConfiguration.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/store/offheap/OffHeapStoreUtils.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/config/persistence/CacheManagerPersistenceConfiguration.java
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/ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/executor/OutOfBandScheduledExecutor.java
* /ehcache-impl-3-9-3-sources-jar/org/ehcache/impl/internal/loaderwriter/writebehind/NonBatchingLocalHeapWriteBehindQueue.java

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1.1540 json-java 1.1

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<url>https://github.com/42Crunch/JSON-java</url>
<description>
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    <connection>scm:git:git://github.com/42Crunch/JSON-java.git</connection>
    <developerConnection>scm:git:ssh://git@github.com/42Crunch/JSON-java.git</developerConnection>
    <url>http://github.com/42Crunch/JSON-java/tree/master</url>
    <tag>json-java-1.1</tag>
  </scm>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>com.jayway.jsonpath</groupId>
       <artifactId>json-path</artifactId>
      <version>2.1.0</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>org.mockito</groupId>
      <artifactId>mockito-core</artifactId>
      <version>1.9.5</version>
```

```
      <scope>test</scope>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-gpg-plugin</artifactId>
        <version>1.6</version>
        <executions>
          <execution>
            <id>sign-artifacts</id>
            <phase>verify</phase>
            <goals>
              <goal>sign</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
      <plugin>
        <groupId>org.sonatype.plugins</groupId>
         <artifactId>nexus-staging-maven-plugin</artifactId>
        <version>1.6.8</version>
        <extensions>true</extensions>
        <configuration>
          <serverId>ossrh</serverId>
          <nexusUrl>https://oss.sonatype.org/</nexusUrl>
          <autoReleaseAfterClose>true</autoReleaseAfterClose>
        </configuration>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-source-plugin</artifactId>
        <version>3.2.0</version>
        <executions>
          <execution>
            <id>attach-sources</id>
            <goals>
              <goal>jar-no-fork</goal>
            </goals>
          </execution>
        </executions>
      </plugin>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
         <artifactId>maven-javadoc-plugin</artifactId>
        <version>3.2.0</version>
```

```
            <executions>
              <execution>
                <id>attach-javadocs</id>
                <goals>
                  <goal>jar</goal>
                </goals>
              </execution>
            </executions>
          </plugin>
          <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-release-plugin</artifactId>
            <version>3.0.0-M1</version>
          </plugin>
          <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-surefire-plugin</artifactId>
            <version>3.0.0-M4</version>
          </plugin>
        </plugins>
    </build>

</project>
```

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* /json-java-1-1-sources-1-jar/META-INF/maven/com.xliic/json-java/pom.xml
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* /json-java-1-1-sources-1-jar/org/json/JSONStringer.java
* /json-java-1-1-sources-1-jar/org/json/JSONWriter.java
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Found in path(s):
* /json-java-1-1-sources-1-jar/org/json/XMLTokener.java
* /json-java-1-1-sources-1-jar/org/json/HTTP.java
* /json-java-1-1-sources-1-jar/org/json/JSONPointerException.java
* /json-java-1-1-sources-1-jar/org/json/Cookie.java
* /json-java-1-1-sources-1-jar/org/json/JSONPointer.java
* /json-java-1-1-sources-1-jar/org/json/HTTPTokener.java
* /json-java-1-1-sources-1-jar/org/json/XMLParserConfiguration.java
* /json-java-1-1-sources-1-jar/org/json/Property.java
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Found in path(s):
* /json-java-1-1-sources-1-jar/org/json/JSONObject.java
* /json-java-1-1-sources-1-jar/org/json/JSONArray.java

1.1541 jaxb-xjc 2.2.6

1.1542 jaxb-core 2.2.6

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1.1543 antlr 2.7.5

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1.1544 javassist 3.18.1-GA

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* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
 /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
*
 /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
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* /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/MethodHandler.java

*
 /javassist-3-18-1-ga-sources-3-jar/javassist/CtField.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/CodeGen.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Compiler.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/ClassPath.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/SerialVersionUID.java
*
 /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/expr/NewArray.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/BinExpr.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/CtArray.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Symbol.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/expr/NewExpr.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/runtime/DotClass.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/analysis/ControlFlow.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformReadField.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ByteArray.java
*
 /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/CtClass.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/framedump.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Sample.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/convert/TransformBefore.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/CtNewConstructor.java
*
 /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/Bytecode.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/Opcode.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Variable.java

* /javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/expr/ExprEditor.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/runtime/Inner.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/util/proxy/Proxy.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/expr/Cast.java
* /javassist-3-18-1-ga-sources-3-jar/javassist/Loader.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/LoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/MDC.java

* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/FormattingTuple.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/Util.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/IMarkerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/Marker.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LocationAwareLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/Logger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPMDCAdapter.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/ILoggerFactory.java

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One of the key reasons we got delayed on the CentOS-6 release was lack of
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setup a large build machine, then tune the build process and help improve
the overall build, test and validate process we were using. This build
machine he donated to the project was about 5 times more capable than the
entire buildsystem we had. And he did this out of his own pocket, from
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own time, and has since upgraded the machine as well. It's now a 128GB,
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Having this capability was key in our ability to build, test and deliver
CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
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1.1552 soapmonitor 1.4

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1.1555 aspect-j 1.5.3

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* @author Rainer Pruy
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1.1560 commons-lang3 3.1

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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1.1575 libgd 2.0.35-26.el7

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Although their code does not appear in gd, the authors wish to thank
David Koblas, David Rowley, and Hutchison Avenue Software Corporation
for their prior contributions.

The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998
==========

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larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
RELATED SOFTWARE	Other stuff you should get.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc	How to configure and install the IJG software.
usage.doc	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.doc	Overview of the JPEG library's internal structure.
filelist.doc	Road map of IJG files.
coderules.doc	Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression
processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output
to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c
for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that
very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

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REFERENCES
==========

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/.
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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.
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 /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMax.java
* /validation-api-1-1-0-final-sources-jar/javax/validation/groups/package-info.java
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* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMin.java
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program 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 General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; 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.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
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Public License instead of this License.

1.1595 commons-logging 1.2

1.1595.1 Available under license :

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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
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
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1.1596 sqlite 3.7.17-8.el7.1

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SQLite core and like the SQLite core are in the public domain. The
The TH3 test harness is a set of proprietary tests, written in

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<html>
<body bgcolor="white">
FOR IMMEDIATE RELEASE:

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's
most deployed SQL database engine</h3>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium,
a new membership association dedicated to maintaining SQLite as a fully open
and independent product, was formally announced today. Mozilla and Symbian Ltd.
have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database
engine. The source code to SQLite is in the public domain and is available with

no associated fees. SQLite is the most deployed SQL database engine in the world
and is currently used in a wide range of commercial software products and electronic
devices from leading manufacturers.
SQLite is found today in many mobile phones,
MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing
SQLite as a product that anyone may use without paying royalties or licensing fees.
Members of the SQLite Consortium provide funding to enable this mission and in
return receive enterprise-level technical support. Technical control and direction
of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian,
the market-leading open operating system for advanced data-enabled smartphones,
both deploy the SQLite database engine in their products. As charter members of
the Consortium, Mozilla and Symbian are ensuring the development and support of
SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast,
and open source," said Michael Schroepfer,
Vice President of Engineering, Mozilla.
"As a charter member of the SQLite Consortium, Mozilla is excited to help ensure
SQLite remains a vibrant and open technology, in line with our mission to promote
choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management
which are essential in smartphone functionality and will also help create a pool
of developers, highly-skilled in SQLite for future mobile phone development, "
said Bruce Carney, Director, Developer Programmes & Services, Symbian.
"Our involvement with the SQL Consortium not only demonstrates Symbian's commitment
to open standards in the industry, but as mobile phones become increasingly powerful
and smartphones become increasingly popular, we are focused on ensuring that
desktop developers, who move to the mobile space, have the easiest and most
productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional
information
regarding the SQLite Consortium is available at the SQLite website,
http://www.sqlite.org/.

# # #

About SQLite

SQLite is a software library that implements a self-contained, embeddable,
serverless, zero-configuration, transactional SQL database engine. The code for

SQLite is in the public domain and is free for any use, commercial or private.
SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp.
The code continues to be maintained and enhanced by an international team
of developers under Hipp's direction.

CONTACT INFORMATION:
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Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products

and technologies that improve the online experience for people everywhere.
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Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS,
the market-leading open operating system for advanced, data-enabled mobile phones
known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers
and has built close co-operative business

relationships with leading companies
across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones
were sold worldwide to over 250 major network operators, bringing the total
number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.
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/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

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* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/tclsqlite.c
No license file was found, but licenses were detected in source scan.

2001 September 15
#

```
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this file is testing built-in functions.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
     INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
```

```
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
        ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1)
 FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
```

```
if {"\u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test
 func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
 execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
 execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
 execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
 execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
 execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test
 func-3.9 {
 execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
 execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
 execsql {DELETE FROM tbl1}
 foreach word {this program is free software} {
   execsql "INSERT INTO tbl1 VALUES('$word')"
 }
```

```
 execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
 do_test func-4.1 {
   execsql {
     CREATE TABLE t1(a,b,c);
     INSERT INTO t1 VALUES(1,2,3);
     INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
     INSERT INTO t1 VALUES(3,-2,-5);
   }
   catchsql {SELECT abs(a,b) FROM t1}
 } {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
 do_test func-4.1 {
   execsql {
     CREATE TABLE t1(a,b,c);
     INSERT INTO t1 VALUES(1,2,3);
     INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
     INSERT
 INTO t1 VALUES(3,-2,-5);
   }
   catchsql {SELECT abs(a,b) FROM t1}
 } {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
 do_test func-4.3 {
   catchsql {SELECT abs(b) FROM t1 ORDER BY a}
 } {0 {2 1.2345678901234 2}}
 do_test func-4.4 {
   catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
 if {[working_64bit_int]} {
   do_test func-4.3 {
     catchsql {SELECT abs(b) FROM t1 ORDER BY a}
   } {0 {2 12345678901234 2}}
 }
 do_test func-4.4 {
```

```
  catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
 do_test func-4.5 {
  catchsql {SELECT round(a,b,c) FROM t1}
 } {1 {wrong number of arguments to function
 round()}}
 do_test func-4.6 {
  catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
 } {0 {-2.0 1.23 2.0}}
 do_test func-4.7 {
  catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
 } {0 {2.0 1.0 -2.0}}
 do_test func-4.8 {
  catchsql {SELECT round(c) FROM t1 ORDER BY a}
 } {0 {3.0 -12346.0 -5.0}}
 do_test func-4.9 {
  catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
 } {0 {3.0 -12345.68 -5.0}}
 do_test func-4.10 {
  catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
 } {0 {x3.0y x-12345.68y x-5.0y}}
 do_test func-4.11 {
  catchsql {SELECT round() FROM t1 ORDER BY a}
 } {1 {wrong number of arguments to function round()}}
 do_test func-4.12 {
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
 } {1.0 nil 345.0 nil 67890.0}
 do_test func-4.13 {
  execsql {SELECT round(t1,2) FROM tbl1}
 } {0.0 0.0 0.0 0.0 0.0}
 do_test func-4.14 {
  execsql {SELECT typeof(round(5.1,1));}
 } {real}
 do_test func-4.15 {
  execsql {SELECT typeof(round(5.1));}
  } {real}
 do_test func-4.16 {
  catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
 } {0 {-2.0 1.23 2.0}}
```

```
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.5 + $i]
  set x2 [expr 40223.0 + $i]
  do_test func-4.17.$i {
    execsql {SELECT round($x1);}
  } $x2
}
for {set i 1} {$i<999} {incr i} {
  set x1 [expr 40222.05 + $i]
  set x2 [expr 40222.10 + $i]
  do_test func-4.18.$i {
    execsql {SELECT round($x1,1);}
  } $x2
}
do_test func-4.20 {
  execsql {SELECT round(40223.4999999999);}
} {40223.0}
do_test func-4.21 {
  execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
  execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
  do_test func-4.23.$i {
    execsql {SELECT round(40223.4999999999,$i);}

  } {40223.5}
  do_test func-4.24.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.5}
  do_test func-4.25.$i {
    execsql {SELECT round(40225.4999999999,$i);}
  } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
  do_test func-4.26.$i {
    execsql {SELECT round(40223.4999999999,$i);}
  } {40223.4999999999}
  do_test func-4.27.$i {
    execsql {SELECT round(40224.4999999999,$i);}
  } {40224.4999999999}
  do_test func-4.28.$i {
    execsql {SELECT round(40225.4999999999,$i);}
```

```
  } {40225.4999999999}
 }
 do_test func-4.29 {
  execsql {SELECT round(1234567890.5);}
 } {1234567891.0}
 do_test func-4.30 {
  execsql {SELECT round(12345678901.5);}
 } {12345678902.0}
 do_test func-4.31 {
  execsql {SELECT round(123456789012.5);}
 } {123456789013.0}
 do_test func-4.32 {
  execsql {SELECT round(1234567890123.5);}
 } {1234567890124.0}
 do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
 } {12345678901235.0}
 do_test func-4.34
 {
  execsql {SELECT round(1234567890123.35,1);}
 } {1234567890123.4}
 do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
 } {1234567890123.45}
 do_test func-4.36 {
  execsql {SELECT round(99999999999994.5);}
 } {99999999999995.0}
 do_test func-4.37 {
  execsql {SELECT round(9999999999999.55,1);}
 } {9999999999999.6}
 do_test func-4.38 {
  execsql {SELECT round(9999999999999.556,2);}
 } {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
 do_test func-5.4 {
```

```
  catchsql {SELECT upper(a,5) FROM t2}
 } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
 catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number
 of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}


# Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
 do_test func-8.1 {
   ifcapable explain {
     execsql {EXPLAIN SELECT sum(a) FROM t2;}
   }
   execsql {
     SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
   }
 } {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
 do_test func-8.1 {
   ifcapable
```

```
 explain {
    execsql {EXPLAIN SELECT sum(a) FROM t2;}
  }
  execsql {
    SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
  }
 } {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
 execsql {
  SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

ifcapable tempdb {
 do_test func-8.3 {
  execsql {
    CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
 } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
 do_test func-8.3 {
  execsql {
    CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
    SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
  }
 } {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
}
do_test func-8.4 {
 execsql {
  SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable
 compound {
 do_test func-8.5 {
  execsql {
    SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                  UNION ALL SELECT -9223372036854775807)
  }
 } {0}
 do_test func-8.6 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                  UNION ALL SELECT -9223372036854775807)
  }
 } {integer}
```

```
 do_test func-8.7 {
   execsql {
     SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                   UNION ALL SELECT -9223372036854775807)
   }
 } {real}
ifcapable floatingpoint {
 do_test func-8.8 {
   execsql {
     SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                   UNION ALL SELECT -9223372036850000000)
   }
 } {1}
}
ifcapable !floatingpoint {
 do_test func-8.8 {
   execsql {
     SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                   UNION ALL SELECT
 -9223372036850000000)
   }
 } {1}
}
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
 execsql {
   SELECT random() is not null;
 }
} {1}
do_test func-9.2 {
 execsql {
   SELECT typeof(random());
 }
} {integer}
do_test func-9.3 {
 execsql {
   SELECT randomblob(32) is not null;
 }
} {1}
do_test func-9.4 {
 execsql {
   SELECT typeof(randomblob(32));
 }
} {blob}
do_test func-9.5 {
```

```
 execsql {
   SELECT length(randomblob(32)), length(randomblob(-5)),
          length(randomblob(2000))
 }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob().  So this seems like a good place to test
# hex().
#
ifcapable bloblit {
 do_test func-9.10 {
   execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}
 } {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
 do_test func-9.11-utf16le {
   execsql {SELECT hex(replace('abcdefg','ef','12'))}
  } {610062006300640031003200 6700}
 do_test func-9.12-utf16le {
   execsql {SELECT hex(replace('abcdefg','','12'))}
 } {61006200630064006500660067 00}
 do_test func-9.13-utf16le {
   execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
 } {610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
 do_test func-9.11-utf8 {
   execsql {SELECT hex(replace('abcdefg','ef','12'))}
 } {61626364313267}
 do_test func-9.12-utf8 {
   execsql {SELECT hex(replace('abcdefg','','12'))}
 } {61626364656667}
 do_test func-9.13-utf8 {
   execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
 } {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1
 {
 catchsql {
```

```
  SELECT testfunc(NULL,NULL);
 }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
 execsql {
  SELECT testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'int', 1234
  );
 }
} {1234}
do_test func-10.3 {
 execsql {
  SELECT testfunc(
   'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
   'string', NULL
  );
 }
} {{}}

ifcapable floatingpoint {
 do_test func-10.4 {
  execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
  }
 } {1.234}
 do_test func-10.5 {
  execsql {
   SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double',
 1.234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL,
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'double', 1.234
   );
  }
 } {1.234}
```

```
}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
 execsql {
   SELECT sqlite_version(*);
 }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
  do_test func-12.1-utf8 {
   execsql {
     SELECT test_destructor('hello world'), test_destructor_count();
   }
 } {{hello world} 1}
} else {
   ifcapable {utf16} {
     do_test func-12.1-utf16 {
       execsql {
         SELECT test_destructor16('hello world'), test_destructor_count();
       }
     } {{hello world} 1}
   }
}
do_test func-12.2 {
 execsql {
   SELECT test_destructor_count();
 }
} {0}
do_test func-12.3 {
 execsql {
   SELECT test_destructor('hello')||' world'
 }
} {{hello world}}
do_test func-12.4 {
 execsql {
   SELECT test_destructor_count();
 }
```

```
} {0}
do_test func-12.5 {
 execsql {
  CREATE TABLE t4(x);
  INSERT INTO t4 VALUES(test_destructor('hello'));
  INSERT INTO t4 VALUES(test_destructor('world'));
  SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
 }
} {hello world}
do_test func-12.6 {
 execsql {
  SELECT test_destructor_count();
 }
} {0}
do_test func-12.7 {
 execsql {
  DROP TABLE t4;
 }
} {}


# Test that
 the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
do_test func-13.1 {
 execsql {
  SELECT test_auxdata('hello world');
 }
} {0}

do_test func-13.2 {
 execsql {
  CREATE TABLE t4(a, b);
  INSERT INTO t4 VALUES('abc', 'def');
  INSERT INTO t4 VALUES('ghi', 'jkl');
 }
} {}
do_test func-13.3 {
 execsql {
  SELECT test_auxdata('hello world') FROM t4;
 }
} {0 1}
do_test func-13.4 {
 execsql {
  SELECT test_auxdata('hello world', 123) FROM t4;
 }
} {{0 0} {1 1}}
```

```
do_test func-13.5 {
 execsql {
   SELECT test_auxdata('hello world', a) FROM t4;
 }
} {{0 0} {1 0}}
do_test func-13.6 {
 execsql {
   SELECT test_auxdata('hello'||'world', a) FROM t4;
 }
} {{0 0} {1 0}}

# Test that auxilary data is preserved between calls for SQL variables.
do_test func-13.7 {
 set DB [sqlite3_connection_pointer db]
 set sql "SELECT test_auxdata(
 ? , a ) FROM t4;"
 set STMT [sqlite3_prepare $DB $sql -1 TAIL]
 sqlite3_bind_text $STMT 1 hello\000 -1
 set res [list]
 while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
   lappend res [sqlite3_column_text $STMT 0]
 }
 lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
 catch {
   db function [string repeat X 254] {return "hello"}
 }
} {0}
do_test func-14.2 {
 catch {
   db function [string repeat X 256] {return "hello"}
 }
} {1}

do_test func-15.1 {
 catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
 catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
 catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
 db errorcode
```

```
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
 execsql {
   CREATE TABLE tbl2(a, b);
 }
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
 sqlite3_bind_blob $::STMT 1 abc 3
 sqlite3_step $::STMT
 sqlite3_finalize $::STMT
 execsql {
   SELECT quote(a), quote(b) FROM tbl2;
 }
} {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
 proc testfunc1 args {error "Error %d with %s percents %p"}
 db function testfunc1 ::testfunc1
 catchsql {
   SELECT testfunc1(1,2,3);
 }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
 execsql {
   CREATE TABLE t5(x);
   INSERT INTO t5 VALUES(1);
   INSERT INTO t5 VALUES(-99);
   INSERT INTO t5 VALUES(10000);
   SELECT sum(x) FROM t5;
 }
} {9902}
ifcapable floatingpoint {
 do_test func-18.2 {
   execsql {
     INSERT INTO t5 VALUES(0.0);
     SELECT sum(x) FROM t5;
   }
 } {9902.0}
}

# The sum of nothing is NULL.  But the sum of all NULLs is NULL.
#
```

```
#
 The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
 execsql {
   DELETE FROM t5;
   SELECT sum(x), total(x) FROM t5;
 }
} {{} 0.0}
do_test func-18.4 {
 execsql {
   INSERT INTO t5 VALUES(NULL);
   SELECT sum(x), total(x) FROM t5
 }
} {{} 0.0}
do_test func-18.5 {
 execsql {
   INSERT INTO t5 VALUES(NULL);
   SELECT sum(x), total(x) FROM t5
 }
} {{} 0.0}
do_test func-18.6 {
 execsql {
   INSERT INTO t5 VALUES(123);
   SELECT sum(x), total(x) FROM t5
 }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
 execsql {
   CREATE TABLE t6(x INTEGER);
   INSERT INTO t6 VALUES(1);
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)+1) from t6;
 }
} 0
do_test func-18.11 {
 execsql {
   SELECT typeof(sum(x)) FROM t6
 }
} integer
ifcapable floatingpoint {
 do_test func-18.12 {
   catchsql {
```

```
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
  }
 } {1 {integer overflow}}
 do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
 } 0.0
}
ifcapable !floatingpoint {
 do_test func-18.12 {
  catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
  }
 } {1 {integer overflow}}
 do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
 } 0.0
}
if {[working_64bit_int]} {
 do_test func-18.14 {
  execsql {
    SELECT sum(-9223372036854775805);
  }
 } -9223372036854775805
}
ifcapable compound&&subquery {

do_test func-18.15 {
 catchsql {
  SELECT sum(x) FROM
    (SELECT 9223372036854775807 AS x UNION ALL
     SELECT 10 AS x);
 }
} {1 {integer overflow}}
if {[working_64bit_int]} {
 do_test func-18.16 {
  catchsql {
    SELECT sum(x) FROM
      (SELECT 9223372036854775807 AS x UNION ALL
       SELECT -10 AS x);
  }
 } {0 9223372036854775797}
```

```
 do_test func-18.17 {
  catchsql {
    SELECT sum(x) FROM
      (SELECT -9223372036854775807 AS x UNION ALL
       SELECT 10 AS x);
  }
 } {0 -9223372036854775797}
}
do_test func-18.18 {
 catchsql {
  SELECT sum(x) FROM
    (SELECT -9223372036854775807 AS x UNION ALL
     SELECT -10 AS x);
 }
} {1 {integer overflow}}
do_test func-18.19 {
 catchsql {
  SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
 }
} {0 -1}
do_test func-18.20 {
 catchsql {
  SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
 }
} {0 1}
do_test func-18.21 {
 catchsql {
  SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
 }
} {0 -1}
do_test func-18.22 {
 catchsql {
  SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
 }
} {0 1}

} ;# ifcapable compound&&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
 do_test func-18.31 {
  catchsql {
    SELECT abs(-9223372036854775807);
  }
 } {0 9223372036854775807}
}
do_test
```

```
 func-18.32 {
 catchsql {
   SELECT abs(-9223372036854775807-1);
 }
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
 execsql {
   SELECT match(a,b) FROM t1 WHERE 0;
 }
} {}
do_test func-19.2 {
 catchsql {
   SELECT 'abc' MATCH 'xyz';
 }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
 catchsql {
   SELECT 'abc' NOT MATCH 'xyz';
 }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
 catchsql {
   SELECT match(1,2,3);
 }
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if {![catch {db eval {SELECT soundex('hello')}}]} {
 set i 0
 foreach {name sdx} {
   euler        E460
   EULER        E460
   Euler        E460
   ellery       E460
   gauss        G200
   ghosh        G200
   hilbert      H416
   Heilbronn    H416
   knuth        K530
   kant         K530
   Lloyd        L300
   LADD
     L300
   Lukasiewicz  L222
```

```
  Lissajous    L222
  A            A000
  12345        ?000
 } {
  incr i
  do_test func-20.$i {
    execsql {SELECT soundex($name)}
  } $sdx
 }
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
 catchsql {
  SELECT replace(1,2);
 }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
 catchsql {
  SELECT replace(1,2,3,4);
 }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
 execsql {
  SELECT typeof(replace("This is the main test string", NULL, "ALT"));
 }
} {null}
do_test func-21.4 {
 execsql {
  SELECT typeof(replace(NULL, "main", "ALT"));
 }
} {null}
do_test func-21.5 {
 execsql {
  SELECT typeof(replace("This is the main test string", "main", NULL));
 }
} {null}
do_test func-21.6 {
 execsql {
  SELECT replace("This is the main test string", "main", "ALT");
 }
} {{This is the ALT test string}}
do_test func-21.7 {
 execsql {
  SELECT replace("This is the
 main test string", "main", "larger-main");
 }
```

```
} {{This is the larger-main test string}}
do_test func-21.8 {
 execsql {
   SELECT replace("aaaaaaa", "a", "0123456789");
 }
} {01234567890123456789012345678901234567890123456789012345678901234567890123456789}

ifcapable tclvar {
 do_test func-21.9 {
   # Attempt to exploit a buffer-overflow that at one time existed
   # in the REPLACE function.
   set ::str "[string repeat A 29998]CC[string repeat A 35537]"
   set ::rep [string repeat B 65536]
   execsql {
     SELECT LENGTH(REPLACE($::str, 'C', $::rep));
   }
 } [expr 29998 + 2*65536 + 35537]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
 catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
 catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
 catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {

 execsql {SELECT trim('  hi  ');}
} {hi}
do_test func-22.5 {
 execsql {SELECT ltrim('  hi  ');}
} {{hi  }}
do_test func-22.6 {
 execsql {SELECT rtrim('  hi  ');}
} {{  hi}}
do_test func-22.7 {
 execsql {SELECT trim('  hi  ','xyz');}
} {{  hi  }}
do_test func-22.8 {
 execsql {SELECT ltrim('  hi  ','xyz');}
} {{  hi  }}
do_test func-22.9 {
 execsql {SELECT rtrim('  hi  ','xyz');}
```

```
} {{  hi  }}
do_test func-22.10 {
 execsql {SELECT trim('xyxzy  hi  zzzy','xyz');}
} {{  hi  }}
do_test func-22.11 {
 execsql {SELECT ltrim('xyxzy  hi  zzzy','xyz');}
} {{  hi  zzzy}}
do_test func-22.12 {
 execsql {SELECT rtrim('xyxzy  hi  zzzy','xyz');}
} {{xyxzy  hi  }}
do_test func-22.13 {
 execsql {SELECT trim('  hi  ','');}
} {{  hi  }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
 do_test func-22.14 {
   execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869',x'6162e1bfbfc280'))}
 } {F48FBFBF6869}
 do_test func-22.15 {
   execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',

     x'6162e1bfbfc280f48fbfbf'))}
 } {6869}
 do_test func-22.16 {
   execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'));}
 } {CEB2CEB3}
}
do_test func-22.20 {
 execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
 execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
 execsql {SELECT typeof(trim('hello',NULL));}
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {
 do_test func-23.1 {
   sqlite3_create_aggregate db
   execsql {
     SELECT legacy_count() FROM t6;
   }
 } {3}
}

# The group_concat() function.
```

```
#
do_test func-24.1 {
 execsql {
   SELECT group_concat(t1) FROM tbl1
 }
} {this,program,is,free,software}
do_test func-24.2 {
 execsql {
   SELECT group_concat(t1,' ') FROM tbl1
 }
} {{this program is free software}}
do_test func-24.3 {
 execsql {
   SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
 }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
 execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
 }
} {{}}
do_test func-24.5 {
 execsql {
   SELECT group_concat(t1,NULL) FROM tbl1
 }
} {thisprogramisfreesoftware}
do_test func-24.6 {
 execsql {
   SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
 }
} {BEGIN-this,program,is,free,software}

# Ticket #3179:  Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
 append midargs ,'/$i'
 append midres /$i
 set result [md5 \
    "this${midres}program${midres}is${midres}free${midres}software${midres}"]
 set sql "SELECT md5sum(t1$midargs) FROM tbl1"
 do_test func-24.7.$i {
```

```
    db eval $::sql
 } $result
}

# Ticket #3806.  If the initial string in a group_concat is an empty
# string, the separator that follows should still
 be present.
#
do_test func-24.8 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
 }
} {,program,is,free,software}
do_test func-24.9 {
 execsql {
   SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
 }
} {,,,,software}

# Ticket #3923.  Initial empty strings have a separator.  But initial
# NULLs do not.
#
do_test func-24.10 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
 }
} {program,is,free,software}
do_test func-24.11 {
 execsql {
  SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
 }
} {software}
do_test func-24.12 {
 execsql {
   SELECT group_concat(CASE t1 WHEN 'this' THEN ''
                       WHEN 'program' THEN null ELSE t1 END) FROM tbl1
 }
} {,is,free,software}


# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
 execsql
 {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
```

```
# Try to misuse the sqlite3_create_function() interface.  Verify that
# errors are returned.
#
do_test func-26.1 {
 abuse_create_function db
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL.  Verify
# that this function works correctly.
#
do_test func-26.2 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
   lappend a $i
 }
 db eval "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
 "
} {{}}
do_test func-26.3 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
   lappend a $i
 }
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join
 $a ,]);
 "
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
 set a {}
 for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
   lappend a $i
 }
 catchsql "
    SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
```

```
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
 "
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test
 func-26.5 {
 catchsql "
   SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
 "
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
 catchsql "
   SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
  "
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}

do_test func-27.1 {
 catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
 catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
 catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
 db eval {
   CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
 }
 catchsql {
```

```
  INSERT INTO t28(x) VALUES(1);
 }
} {1 {unknown function: nosuchfunc()}}

# Verify that
 the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
 db eval {
  CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
  INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
  INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
  INSERT INTO t29 VALUES(5, "hello", 7);
 }
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
 set x
} {1}
do_test func-29.3 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
 do_test func-29.4 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x>100} {set x many}
  set
 x
 } {many}
}
do_test func-29.5 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
```

```
 set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
 if {$i==0xfeff} continue
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/func.test
No license file was found, but licenses were detected in source scan.

SQLite is open source, and is available in the public domain

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/books.html
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
```

** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
 is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of

** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
**
 routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
**
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**   [sqlite3_status()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three
 arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for

** the database page cache with the default page cache implementation.
** This
 configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer
 in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer
 (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to

** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]]
<dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each
lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(This option sets the
** default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^ ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG
option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.

** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied
 by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]]
 <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility
 but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG

** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of
 using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

2006 September 14
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#
#***
This file implements regression tests for SQLite library. The

```
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
ifcapable !fts3 {
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
 db eval {
   CREATE VIRTUAL TABLE email
 USING fts3([from],[to],subject,body);
   BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

? If the transaction volume on the child is less than half of the parent''s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent''s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent''s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent''s Settings:
Minimum:  5000
Increment:  1000

Volume on Autohedge
 transaction   Volume Hedged
1      - 2499       0
2500 - 5499       5000
5500 - 6499       6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
```

If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know; I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body)
 VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I''d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',

'RE: worksheets', 'Fran,
If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>,
published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body)
 VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE
 IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going
here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,

ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled
for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday,
September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com>
on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE
it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

Open Source Used In Cisco Unity Connection 14SU5 23551

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO
email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com',
'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a ''cloud of suspicion'' sort of
speak. He was the one who got into several bad deals and PPA''s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body)
VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not
Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion
the CAISO filed today? Apparently
they are requesting that FERC discontinue market-based rates immediately and
grant refunds plus interest on the difference between cost-based rates and
market revenues received back to May 2000. They are requesting the
commission act within 14 days. Have you heard anything about what they are
doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ----------

Nailia Dindarova
25/06/2001
15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically
projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract
negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body)
 VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ----------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum

Attached is Columbia Distribution''s notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO
email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its
been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I"m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat and let him know - we are
coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:
Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn"t sure whether he transmitted
them to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement',
'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '

Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body)
VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated',
'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '',
'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.

2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,

Let me know if
you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com',
'c..kenne@enron.com', 'RE: What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline
 Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
 Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001',

'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

  LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:
  1.92 / Final: 1.89)
 TRANS_TYPE: FINAL
 LOAD_ID: PGE4
 MKT_TYPE: 2
 TRANS_DATE: 4/22/01
 SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',

'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I"m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week"s Lite Bytz presentation
 will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

##
Everything above just builds an interesting test database. The actual
tests come after this comment.
##

do_test fts3ac-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts3ac-1.4 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH
 'mark susan'
 }
} {40}
do_test fts3ac-1.5 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'

```
 }
} {40}
do_test fts3ac-1.6 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts3ac-1.7 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts3ac-1.9 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {

 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
 execsql {
```

```
  SELECT rowid, offsets(email) FROM email
   WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94
 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH '"child product"'
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts3ac-4.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts3ac-4.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'christmas candlelight'
 }
} {{<b>...</b>here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service<b>...</b>}}

do_test fts3ac-4.3 {
 execsql {
  SELECT snippet(email) FROM email
```

```
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b><b>...</b>asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations<b>...</b>}}
do_test
 fts3ac-4.4 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts3ac-4.5 {
 execsql {
   SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal! Congrats!  <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
 }
} {{<b>...</b><b>chris</b>.germany@enron.com'" <<b>chris</b><b>...</b>bet this <b>is</b> next
to<b>...</b>about going <b>here</b> Christmas
eve<b>...</b>}}
do_test fts3ac-4.7 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
 }
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement,
together<b>...</b>}}
do_test
 fts3ac-4.8 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
 }
} {{pete.<b>davis</b>@enron.com<b>...</b>3;  No <b>ancillary</b> schedules awarded<b>...</b>detected in
<b>Load</b> schedule.

   LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
```

```
do_test fts3ac-5.1 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

do_test fts3ac-5.2 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies<b>...</b>}}

#-------------------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
 execsql {
   CREATE VIRTUAL TABLE ft USING
 fts3(one, two);
   INSERT INTO ft VALUES('', 'foo');
   INSERT INTO ft VALUES('foo', 'foo');
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
 }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
 execsql {
   DELETE FROM ft WHERE one = 'foo';
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
 }
} {{1 0 0 3}}

finish_test
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fts3ac.test
No license file was found, but licenses were detected in source scan.

License: Public Domain

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite.spec

No license file was found, but licenses were detected in source scan.

procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

Found in path(s):
* %%BeginResource
No license file was found, but licenses were detected in source scan.

public domain and so many groups use SQLite

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/famous.html
No license file was found, but licenses were detected in source scan.

public domain and is thus free for

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/about.html
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/atomiccommit.html
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

2006 September 14
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#
#***
This file implements regression tests for SQLite library. The

```
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts1c-1.1 {
 db eval {
   CREATE VIRTUAL TABLE email
 USING fts1([from],[to],subject,body);
   BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

? If the transaction volume on the child is less than half of the parent''s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent''s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent''s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent''s Settings:
Minimum:  5000
Increment:  1000

Volume on Autohedge
 transaction   Volume Hedged
1      - 2499       0
2500 - 5499       5000
5500 - 6499       6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
```

If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know; I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body)
 VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I''d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW:
Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday,
 October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',

'RE: worksheets', 'Fran,
If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>,
published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body)
 VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
 - OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going
here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ;

110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for
tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday,
September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report

Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',
'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com>
 on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it
is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re:

Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body)
VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com,
judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com',
'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body)
VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not
Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01

Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion
the CAISO filed today? Apparently
they are requesting that FERC discontinue market-based rates immediately and
grant refunds plus interest on the difference between cost-based rates and
market revenues received back to May 2000. They are requesting the
commission act within 14 days. Have you heard anything about what they are
doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ----------

Nailia Dindarova
25/06/2001 15:36
To:
Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ---------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body)
 VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ---------------------------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum

Attached is Columbia Distribution''s notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO
email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com,
dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com,
crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '',
'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com',
'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its
been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',

'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I"m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit
it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat and let him know - we are coming
on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:
Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn"t sure whether he transmitted them

to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement',
'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body)
VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated',
'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey
big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '',
'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not

included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you

see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com',
 'RE: What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline
 Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
 Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001',

'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374
Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

  LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:
  1.92 / Final: 1.89)
 TRANS_TYPE: FINAL
 LOAD_ID: PGE4
 MKT_TYPE: 2
 TRANS_DATE: 4/22/01
 SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',

'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I"m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week"s Lite Bytz presentation
 will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

##
Everything above just builds an interesting test database. The actual
tests come after this comment.
##

do_test fts1c-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts1c-1.4 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark
 susan'
 }
} {40}
do_test fts1c-1.5 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'

```
 }
} {40}
do_test fts1c-1.6 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts1c-1.7 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts1c-1.9 {
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
 execsql {

  SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
 execsql {
```

```
  SELECT rowid, offsets(email) FROM email
   WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94 5 3 0 114 5 3 0 207
 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
 execsql {
  SELECT rowid, offsets(email) FROM email
   WHERE body MATCH '"child product"'
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'christmas candlelight'
 }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}

do_test fts1c-4.3 {
 execsql {
```

```
  SELECT snippet(email) FROM email
   WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
   Review Enron
 asset base for <b>potential</b> <b>reuse</b>/ licensing
   Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
 execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
   WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>>  intent
   Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
   Contract negotiations  }}
do_test fts1c-4.5 {
 execsql {
  SELECT snippet(email,'<<<','>>>',' ') FROM email
   WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal!  Congrats!  <<<Things>>> seem to be building rapidly now on the  }}
do_test fts1c-4.6 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'chris is here'
 }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me.  I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
 execsql {
  SELECT
 snippet(email) FROM email
   WHERE email MATCH '"pursuant to"'
 }
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'ancillary load davis'
 }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3;  No <b>ancillary</b>
schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.
```

LOG MESSAGES:

PARSING ...}}

Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}
do_test fts1c-5.2 {
 execsql {
  SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@enron.com ...
 six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}

finish_test

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fts1c.test
No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.
Copyright 1987-2006 Adobe Systems Incorporated.
Copyright 1987-2004 Adobe Systems Incorporated.
Copyright 1987-2001 Adobe Systems Incorporated.

Found in path(s):
* %%Copyright
No license file was found, but licenses were detected in source scan.

/*
** The "printf" code that follows dates from the 1980's. It is in

** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
****
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLlite.
*/

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/printf.c
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
public domain. But there also exist
proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/support.html
No license file was found, but licenses were detected in source scan.

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the _____ day of _____, 2007 ("Effective Date")
by and between _____ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
http://www.sqlite.org/
("SQLite"); and

WHEREAS, Company wishes to support the independent development of
the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and
maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite
trademark, as well as for promotion of SQLite at conferences and
trade shows; and

WHEREAS, Company wishes to receive benefits in the form of
services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and
maintained as an independent, community-driven project, and to
ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained
herein, the parties agree as follows:

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>
The "SQLite Developers" are the employees or contractors of Hwaci engaged
in the development of SQLite, including without limitation the
SQLite Architect.

<h3>1.2 SQLite Architect</h3>
The "SQLite Architect" is the SQLite Developer with ultimate
responsibility and authority over changes
and maintenance of the
SQLite code. The current SQLite Architect is the original designer
and developer of SQLite, D. Richard Hipp. Hwaci may change the
SQLite Architect from time to time upon approval by Company.

<h3>1.3 Consortium Member</h3>
A "Consortium Member" is a company or organization, including
but not limited to Company, which has entered into an agreement
with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement<h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit,
timely and accurate answers, advice, and instruction

in response to questions and comments from Company about SQLite
submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide
Company with direct assistance
in debugging applications that are built upon or use SQLite.
The combined
time for Debugging Support and Custom
Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company
write new extensions or enhancements
to SQLite according to Company's specifications. These extensions
and enhancements may be proprietary to Company or open source or
with the consent of both Company and the SQLite Architect may
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours
per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company
with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and
run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source
code well commented and documented and clearly structured and
organized so that an experienced and competent programmer can
understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently
to ensure continuing bug-free correct operation and backwards
compatibility with prior releases.

<h4>2.1.10
Test Coverage</h4>
The SQLite Developers shall maintain the SQLite test suite such
that no less than 95% source code coverage is provided.

<h4>2.1.11 Website</h4>
The SQLite Developers shall maintain the SQLite website at
http://www.sqlite.org/
in good working order and all SQLite source code shall
be made freely available at such website.

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company,
provide Company with private notification and briefings
of any new bugs or new features in SQLite that might
effect Company's products.

<h4>2.2.2 Direction</h4>
The SQLite Architect shall coordinate the activities of SQLite
Developers and shall publish from time to time a roadmap of
proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
The SQLite Architect shall personally
review all changes to
the SQLite Source Code and take responsibility for the quality

and correctness of those changes.

<h4>2.2.4 Continuity</h4>
The initial SQLite Architect shall be the original developer
of SQLite, D. Richard Hipp. The role of SQLite Architect shall
not be assigned to another during the term of this Agreement except
due to the disability of Dr. Hipp and with approval of Company.

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
Hwaci shall act as the employer of the SQLite Developers and
SQLite Architect and shall make all tax and legal filings
and tax withholding required by employers. Hwaci shall provide
Company with W-9 information upon request.

<h4>2.3.2 Responsible Party</h4>
All obligations of the SQLite Developers set forth in this
agreement are deemed obligations of Hwaci. Hwaci shall recruit,
employ, and supervise SQLite Developers in such a way that the
responsibilities and obligations of the SQLite
 Developers set
forth in this agreement are upheld.

<h4>2.3.3 Multiple Developers</h4>
Hwaci shall recruit and employ as many SQLite Developers for as
many hours as can be reasonably achieved using the funds received
from Consortium Members under this agreement.
So that support for SQLite will not be interrupted by the
disability or withdrawal of any one SQLite Developer, Hwaci will
keep at least two knowledgeable and competent SQLite Developers
on staff.

<h4>2.3.4 Mentorship</h4>
Hwaci shall work to encourage independent
programmers from around the world
to become familiar with SQLite internals so that there will be a
pool of talent able to support SQLite in the future.

<h4>2.3.5 Audits</h4>
Hwaci shall keep and maintain complete and accurate records
of the use of development funds provided by Company
and shall allow Company, or its representative, a certified
public accountant mutually acceptable to Hwaci and Company,

during office hours and at reasonable
intervals, no more than
once every 12 months, to inspect and make extracts or copies
of such records solely for the purpose of ascertaining Hwaci's
compliance with the objectives and requirements of this agreement.

<h4>2.3.6 Disaster Planning</h4>
Hwaci shall maintain backup copies of all
SQLite source files and documentation, current and historical,
at at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and
server space for the
http://www.sqlite.org/ website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means,
except with the consent of Company.

<h4>2.3.9
New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development,
debugging, and general support service obligations for all
Consortium Members while still providing ample time for
the SQLite Developers to engage in general maintenance
and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder
solely for the development and maintenance of SQLite as set forth in

this Agreement.
Interest on funds received in advance and held in trust will
be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company
shall provide funding for the ongoing support and
maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation
published on the SQLite website
is in the public domain and that nothing in this agreement shall change
that fact.

<h2>3.0 Fees</h2>

In consideration of the performance
by Hwaci, the SQLite Developers, and the SQLite Architect
of the obligations described herein,
Company shall pay Hwaci at least US $75,000 per year in advance
either annually, quarterly, or monthly, at Company's discretion.

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

"Confidential Information" means any Company proprietary information,
technical data, trade secrets or know-how, including, but not limited to,
research, product plans, products, services, customers, customer lists,
markets, software, developments,
inventions, processes, formulas,
technology, designs, drawings, engineering, hardware configuration
information, marketing, finances or other business information
disclosed by Company either directly or indirectly in writing,
orally or by drawings or inspection of parts or equipment.

<h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement,
use Company's Confidential Information for any purpose whatsoever
other than the performance of the Services or disclose
Company's Confidential Information to any third party. The parties

acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

Company acknowledges that all copyrightable material, notes,
records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or
reduced to practice by Hwaci related to SQLite
will remain the property of Hwaci. Nothing in this Agreement
will be construed to transfer any intellectual property right
of Hwaci to Company.

<h3>5.2 Availability and Public Domain Dedication</h3>

The SQLite Developers and Hwaci shall,
subject to their discretion as to the quality
and suitability of the SQLite source code and documentation
for public release, make
the SQLite source code and documentation
publicly available as downloadable files
and make a public statement ceding all intellectual
property rights, including but not limited to copyright
and patent rights, in the SQLite source code and documentation
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite
 Developers' and Hwaci's
rights
including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.

<h3>5.3 Trademark</h3>

Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.

<h2>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to
undertake the obligations of Section 5.

<h3>6.2 Disclaimer.</h3>

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

This Agreement will commence on the Effective Date and
will continue until 12 months after the Effective Date.
Thereafter, the parties may by mutual consent renew
this Agreement subject to agreement on fees to be paid by
Company for sponsorship for additional periods.

<h3>7.2 Termination.</h3>

If either party materially defaults in
the performance
of any of its material obligations hereunder and if any
such default is not corrected within 30 days after notice
in writing, then the non-defaulting party, at its option,
may, in addition to any other remedies it may have, thereupon
terminate this Agreement by giving written notice of
termination to the defaulting party.

<h3>7.3 Survival.</h3>

Upon such termination all rights and duties of the
parties toward each other will cease except:
Sections 4 (Confidentiality), 5 (Intellectual Property),
and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the

enforcement by such party of any other right or remedy
under this Agreement or that such party is entitled by
law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement
is found to be invalid, unlawful or unenforceable to
any extent, the parties
shall endeavor in good faith
to agree to such amendments that will preserve, as far
as possible, the intentions expressed in this Agreement.
If the parties fail to agree on such an amendment,
such invalid term, condition or provision will be
severed from the remaining terms, conditions and
provisions, which will continue to be valid and
enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the
parties with respect to the subject matter of this
Agreement and supersedes all previous communications,
representations, understandings and agreements,
either oral or written, between the parties with
respect to said subject matter. This Agreement
may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts,
each of which so executed will be deemed to be an
original and such counterparts together will constitute
one
and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in
accordance with the laws of the State of North Carolina
and the United States of America, without regard to
conflict of law principles. All disputes arising out
of this Agreement will be subject to the exclusive
jurisdiction of the state and federal courts located in
North Carolina, and each party hereby consents to the
personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an
independent contractor. Nothing in this Agreement will
in any way be construed to constitute Hwaci or any of
its employees as an agent, employee or representative
of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to
indicate their acceptance of its terms.

<table width="100%" border="0">
<tr><td valign="top">
HWACI
By:<hr>

Print Name:<hr>

Title:<hr>

</td><td
 width="10%"></td>
<td valign="top">
COMPANY
By:<hr>

Print Name:<hr>

Title:<hr>

</td></tr></table>

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/consortium_agreement-20071201.html
No license file was found, but licenses were detected in source scan.

MMFauxFont.prc

Found in path(s):
* %%BeginFile
No license file was found, but licenses were detected in source scan.

Sources are in the public domain.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):

* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/features.html
No license file was found, but licenses were detected in source scan.

Public Domain
public domain
the public domain and originals of
author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require
the public domain.
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/copyright.html
No license file was found, but licenses were detected in source scan.

```
# 2012 May 21
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
# NB:  Portions of this file are extracted from open-source projects
# covered by permissive licenses.  Use of this file for testing is clearly
# allowed.  However, do not incorporate the text of this one file into
# end-products without checking the licenses on the open-source projects
# from which this code was extracted.  This warning applies to this one
# file only - not the bulk of the SQLite source code and tests.
#
#***************************************************************************
#
# This file contains large and complex schemas obtained from open-source
# software projects.  The schemas are parsed just to make sure that nothing
#
 breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl
```

```
# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
 db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent TEXT NOT NULL DEFAULT '',t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT '',b_blob BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE doctransactionitem (id INTEGER NOT
 NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT NULL,t_action VARCHAR(1) DEFAULT 'I' CHECK (t_action IN ('I', 'U', 'D')),t_sqlorder TEXT NOT NULL DEFAULT '');
CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT '',t_popup VARCHAR(1) DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_symbol TEXT NOT NULL DEFAULT '',t_country TEXT NOT NULL DEFAULT '',t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL DEFAULT '',i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE
 TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_bank_number TEXT NOT NULL DEFAULT '',t_icon TEXT NOT NULL DEFAULT '');
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK (f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3) NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL DEFAULT '',r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT
 NOT NULL DEFAULT '',rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')),t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')),t_import_id TEXT NOT NULL DEFAULT '',i_tmp INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance FLOAT NOT NULL DEFAULT 0,r_operation_id INTEGER NOT NULL);
```

CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_address TEXT NOT NULL DEFAULT '', t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT '',rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT '');
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT '',t_definition TEXT NOT NULL DEFAULT '',t_action_description TEXT NOT NULL DEFAULT '',t_action_definition TEXT NOT NULL DEFAULT '',t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),f_sortorder FLOAT);
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK (t_including_subcategories IN ('Y', 'N')),f_budgeted
FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified FLOAT NOT NULL DEFAULT 0.0,f_transferred FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12));
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')),rc_category_id_target
INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '' CHECK
(t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_number TEXT NOT NULL DEFAULT '',t_agency_number TEXT NOT NULL DEFAULT '',t_agency_address TEXT NOT NULL DEFAULT '',t_comment TEXT NOT NULL DEFAULT '',t_close

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VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C'
CHECK (t_type IN ('C', 'D', 'A', 'I', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT '' CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT
'',f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data
TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE
 vm_category_display_tmp(
 id INT,
 t_name TEXT,
 t_fullname TEXT,
 rd_category_id INT,
 t_bookmarked TEXT,
 i_NBOPERATIONS,
 f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
 id INT,
 rc_category_id INT,
 t_including_subcategories TEXT,
 f_budgeted REAL,
 f_budgeted_modified REAL,
 f_transferred REAL,
 i_year INT,
 i_month INT,
 t_CATEGORY,
 t_PERIOD,
 f_CURRENTAMOUNT,
 t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id
 ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
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CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE
 INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE
 UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON  category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid
 BEFORE DELETE ON parameters FOR EACH ROW BEGIN     DELETE FROM parameters WHERE
parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE
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node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id
BEFORE INSERT ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE
INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id')
WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)

Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id
BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id')
WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction
est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE
TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!=''
AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id
BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account
est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id')
WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN

SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE
TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id
BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE

TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT
id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id') WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND
(SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE
id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT

RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id')
WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1
AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN '' ELSE (SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id)
, 1) AS f_CURRENTAMOUNT from v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;

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CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE
s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE
s.rd_operation_id=operation.ID)
 AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE
s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM
suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT
s.f_CURRENTAMOUNT FROM v_unit s WHERE
s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN
v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE
v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1
op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND
a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-
v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||IFNULL(t_PAYEE,'')||' '||v_operation.f_CURRENTAMOUNT||'
 '||(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE
s.id=v_operation.rc_unit_id) AS t_displayname FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n''tes pas autoris
dtruire cette opration car en tat rapproch' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM  interest s WHERE
s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation
s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n''tes
pas autoris  dtruire ce compte car il contient des oprations rapproches' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *,
 t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname
WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s
WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y'
THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS
FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE
v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM
v_recurrentoperation;
CREATE
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VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)),'') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display
AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crdit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT

TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire ce suiveur car utilis par des oprations rapproches' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire ce tiers car utilis par des oprations rapproches' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%') AND t_status='Y') THEN 'Vous n''tes pas autoris dtruire cette catgorie car utilise par des oprations rapproches' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM

operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budget.rc_category_id),'') AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10 THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE (v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND (v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND (v_budgetrule_displayname.t_category_condition='N'

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OR budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;
CREATE
 VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS
t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
   DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue';
 END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
 DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE
 FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
EACH ROW BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-
'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE
 (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE
id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
```

```
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
    SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
    from v_operation_display
    WHERE d_DATEMONTH IN ('2012-05', '2012-04')
    group by d_DATEMONTH, t_TYPEEXPENSE;
 }
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
 finish_test
 return
}

# Taken from the gnome-shell project
#
db
 close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
 db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
"mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime"
INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
"mfo:type:graph" INTEGER);
CREATE TABLE
 "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
"mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
```

```
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
"mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"
INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"
INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT
 COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT
NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph"
INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT
NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT
NULL, "mlo:asPostalAddress" INTEGER NOT NULL,
"mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID
 INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city"
TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
```

```
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime"
INTEGER
 NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT
NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph"
INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT
NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER
NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE
 TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER
NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID
INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID
INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT
 NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
```

```
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
"mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime"
 INTEGER,
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property"
 (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
```

```
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action"
 INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member"
INTEGER, "ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph"
INTEGER, "ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:dir"
 INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT
NULL, "ncal:bydayModifier" INTEGER NOT NULL,
"ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT
NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph"
INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
"ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid"
TEXT COLLATE NOCASE, "ncal:prodid:graph" INTEGER, "ncal:version" TEXT
COLLATE NOCASE, "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE
 "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
"ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
"ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
```

```
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
"ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:journalStatus" INTEGER, "ncal:journalStatus:graph"
 INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
"ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate"
INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
"ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,
"ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
"ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime"
INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph"
INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
"ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime"
INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE
 "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
"ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER
 NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
"ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
"ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT
NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
```

INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
"ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL,
"ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL,
"ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT
NULL, "ncal:byyearday" INTEGER NOT
NULL, "ncal:byyearday:graph"
INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE,
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,
"ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"
INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE
NOCASE, "ncal:tzname:graph" INTEGER);
CREATE
TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration"
INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate"
INTEGER, "ncal:lastModified:localTime"
INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,

"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT
COLLATE NOCASE, "ncal:comment:graph" INTEGER, "ncal:summaryAltRep"
INTEGER, "ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER,
"ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE
NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
INTEGER, "ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee"
(ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);

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CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild"
 (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE
NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT
 NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER
 NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
NULL, "nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
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"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
INTEGER);
CREATE TABLE "nco:Contact_nco:note"
(ID INTEGER NOT NULL, "nco:note"
TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE
NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled"
INTEGER,
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph"
INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imAvatar" INTEGER, "nco:imAvatar:graph" INTEGER, "nco:imProtocol"
TEXT COLLATE NOCASE, "nco:imProtocol:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);

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CREATE TABLE "nco:IMAddress_nco:imCapability"
 (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional"
 TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);
CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress"
 TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
COLLATE NOCASE, "nco:postalcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video"
INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL,
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"nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL,
"nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL,
"nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress"
 (ID INTEGER NOT NULL,
"nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL,
"nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL,
"nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL,
"nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url"
INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL,
"nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER
 NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph"
INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER,
 "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
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CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT
NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID
INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE
 "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph"
INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable"
 (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,
"nfo:fileLastAccessed:localDate" INTEGER,
"nfo:fileLastAccessed:localTime" INTEGER, "nfo:fileCreated" INTEGER,
"nfo:fileCreated:graph" INTEGER, "nfo:fileCreated:localDate" INTEGER,
"nfo:fileCreated:localTime" INTEGER, "nfo:fileSize" INTEGER,
"nfo:fileSize:graph" INTEGER, "nfo:permissions" TEXT COLLATE NOCASE,
"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
"nfo:fileName:graph" INTEGER, "nfo:hasHash" INTEGER,
"nfo:hasHash:graph" INTEGER, "nfo:fileOwner" INTEGER,
"nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified" INTEGER,
"nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate"
INTEGER, "nfo:fileLastModified:localTime" INTEGER);
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CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
"nfo:hashAlgorithm"
 TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph"
INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
"nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph"
INTEGER, "nfo:horizontalResolution" INTEGER,
"nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER,
"nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts"
 (ID INTEGER NOT NULL,
"nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
"nfo:hasRegionOfInterest" INTEGER NOT NULL,
"nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count"
INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
"nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER,
"nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
"nfo:hasMediaStream:graph" INTEGER, "nfo:bitDepth" INTEGER,
"nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
"nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
"nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
"nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
"nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
"nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,
"nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition"
 INTEGER,
"nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE
NOCASE, "nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
"nmm:skipCounter:graph" INTEGER, "nmm:dlnaProfile" TEXT COLLATE
NOCASE, "nmm:dlnaProfile:graph" INTEGER, "nmm:dlnaMime" TEXT COLLATE
NOCASE, "nmm:dlnaMime:graph" INTEGER, "nmm:uPnPShared" INTEGER,
"nmm:uPnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
"mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
"mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY
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KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER,
"nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER,
"nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT
NULL, "nfo:hasMediaFileListEntry" INTEGER NOT
NULL,
"nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL,
"nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph"
INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden"
INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL,
"nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph"
INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE
"nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
"nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
"nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph"
INTEGER, "nfo:regionOfInterestHeight" REAL,
"nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"
INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo"
INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph"
INTEGER,
"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,

"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE
TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt"
REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph"
INTEGER, "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph"
INTEGER, "nid3:contentType" TEXT COLLATE NOCASE,
"nid3:contentType:graph" INTEGER, "nid3:length" INTEGER,
"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE
NOCASE, "nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT
COLLATE

NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT
COLLATE NOCASE, "nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime"
INTEGER, "nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph"
INTEGER, "tracker:available" INTEGER, "tracker:available:graph"
INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph"
INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer"
TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs"
INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate"
INTEGER, "nie:contentCreated:localTime" INTEGER, "nie:contentAccessed"
INTEGER, "nie:contentAccessed:graph" INTEGER,
"nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE
NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE
NOCASE, "nie:identifier:graph" INTEGER, "nie:licenseType" TEXT

COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet"
TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize"
INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph"
INTEGER, "slo:location" INTEGER, "slo:location:graph" INTEGER,
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER, "osinfo:id"
TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER, "osinfo:mediaId" TEXT
COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER);
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT
NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT
NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT
NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator"
(ID INTEGER NOT
NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER
NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL,
"nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT
NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID
INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL,
"nie:informationElementDate:graph" INTEGER,
"nie:informationElementDate:localDate" INTEGER NOT NULL,
"nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER
NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL,
"nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT
NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE
"nie:InformationElement_nie:relatedTo" (ID INTEGER NOT
NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph"
INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,
"nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph"
INTEGER);

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CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,
"nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
"nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph"
 INTEGER,
"nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
"nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
"nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
"nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
"nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute"
 INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer"
INTEGER, "nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER,
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
"nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
"nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
"nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
"nmm:whiteBalance:graph" INTEGER, "nmm:isCropped"
 INTEGER,
"nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER,
"nmm:isColorCorrected:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
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CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime"
 INTEGER,
"nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle"
 INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph"
INTEGER, "nmo:lastMessageDate:localDate" INTEGER,
"nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER
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NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL,
"nmo:hasParticipant:graph" INTEGER);
CREATE
TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent"
INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE
NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE
NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL,
"nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph"
INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph"
INTEGER, "nmo:accountDisplayName"
TEXT COLLATE NOCASE,
"nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER,
"nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,
"nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph"
INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered"
INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph"
INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph"
INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE
NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT
COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER,
"nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
"nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime"
INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER,
"nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation"

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INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel"
INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph"
INTEGER, "nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph"
INTEGER, "nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph"
 INTEGER, "nmo:mmsId" TEXT COLLATE
NOCASE, "nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc"
INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc"
INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL,
"nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,
"nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL,
"nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER
 NOT NULL,
"nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL,
"nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to"
INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER,
"nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER,
"nmo:contentTransferEncoding" TEXT COLLATE NOCASE,
"nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription"
TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER,
"nmo:contentDisposition" TEXT COLLATE NOCASE,
"nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL,
"nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary"
 (ID INTEGER NOT NULL,
"nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
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CREATE TABLE "nmo:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding"
TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,
"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID
INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT
NULL, "nmo:containsPhoneMessageFolder:graph"
 INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,
"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range"
INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed"
INTEGER, "tracker:fulltextIndexed:graph"
 INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph"
INTEGER, "tracker:transient" INTEGER, "tracker:transient:graph"
INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph"
INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER
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 NOT NULL, "tracker:domainIndex:graph"
INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph"
 INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source"
 (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
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"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER,
 "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
"scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL,
"scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL,
"scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER
 NOT
NULL, "scal:alarmAttendee" INTEGER NOT NULL,
"scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph"
INTEGER, "scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end"
INTEGER, "scal:end:graph" INTEGER, "scal:isAllDay" INTEGER,
"scal:isAllDay:graph" INTEGER, "scal:priority" INTEGER,
"scal:priority:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph"
 INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER
NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL,
"scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
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CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus"
 (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"
INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT
 NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph"
INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE
 "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
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"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
NULL, "slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph"
 INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph"
INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON
"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID"
 ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
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"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID"
 ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON
"mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID"
 ON
"mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID,
"mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID,
"mlo:boxNorthLimit");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID,
"mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID,
"mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON
"mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON
"mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON
"mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE
 UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON
"mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON
"mto:Transfer_mto:transferPrivacyLevel" (ID,
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"mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON
"mto:UploadTransfer_mto:transferCategory" (ID,
"mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON
"nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON
"nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON
"ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayWeekday_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayWeekday" (ID, "ncal:bydayWeekday");
CREATE
UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON
"ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON
"ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON
"ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON
"ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID"
ON
"ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON
"ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON
"ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON
"ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON
"ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON
"ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");

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CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID"
 ON
"ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON
"ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON
"ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToChild" (ID,
"ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToParent" (ID,
"ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON
"ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON
"ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE
 UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON
"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON
"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability"
 (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
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"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE
 UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url"
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX
"nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID,
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmark" (ID,
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON
"nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON
"nfo:Image_nfo:depicts"
 (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON
"nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON
"nfo:MediaList_nfo:hasMediaFileListEntry" (ID,
"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON
"nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON
"nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON
"nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual"
("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
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"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID"
 ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID"
ON "nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart"
 (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX
 "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
```

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CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant"
 (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant",
ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE
 UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
```

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"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID"
 ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON
"rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON
"rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON
"rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON
"rdfs:Resource_dc:date" (ID, "dc:date");
CREATE
 UNIQUE INDEX "rdfs:Resource_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON
"rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON
"rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON
"rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
"rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to"
 (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
```

```
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact"
 (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact"
 WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
```

```
"nco:PersonContact_nco:hasAffiliation2",
"nco:Role_nco:hasIMAddress"
 AS "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:phoneNumber"
FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, '\n')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:emailAddress"
FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',')
FROM
 (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress"
AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID")), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',')
FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n')
 FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID")), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID")), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
```

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ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",',') FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM
 "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID")), (SELECT
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID
= "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
= "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:postalcode" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress"
FROM
 "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ?
COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM
Resource WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)||?
COLLATE NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:country" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:region" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress"
AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation11",
"nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID"
 AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12"."ID")), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
```

"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nao:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
 }
} {/.* Goto .*/}

finish_test

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fuzz-oss1.test
No license file was found, but licenses were detected in source scan.

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** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**   May you do good and not evil.
**   May you find forgiveness for yourself and forgive others.
**   May you share freely, never taking more than you give.
**
****
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
**
 subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed

** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   * General-purpose declarations and utility functions.
**   * Unique file ID logic used by VxWorks.
**   * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
**   * sqlite3_file methods not associated with locking.
**   * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
**   * sqlite3_vfs method implementations.
**   * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   * Definitions of sqlite3_vfs objects
 for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/os_unix.c
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<body bgcolor="white">
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Signature:

</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name
(printed):
</td>
</tr>
</table>
</body>
</html>

Found in path(s):

* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/copyright-release.html
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Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/index.html
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Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/capi3ref.html
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```
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#
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# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS2 module.
#
# $Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
ifcapable !fts2 {
 finish_test
 return
}

# Create a table of sample email data.   The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts2c-1.1 {
```

db eval {
  CREATE VIRTUAL TABLE email
USING fts2([from],[to],subject,body);
  BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent''s minimum volume no hedge will occur.
? If the transaction volume on the child is more than half the parent''s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent''s minimum volume.
? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent''s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge
 transaction   Volume Hedged
1   - 2499   0
2500 - 5499   5000
5500 - 6499   6000');
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:
If it''s ok with everyone''s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o''clock hour just let me know; I''ll
be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body)
 VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I"d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday,
October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may

have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie''s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd''s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>,
 published as of 09/27/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body)
 VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481

outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going
here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,

among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
 'rwolkwitz@powermerchants.com', '', '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
<http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for
 tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday,
September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com',

'Egyptian Festival', '---------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ----------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com>
on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)" <Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)" <marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....

Thanks
---------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ----------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it
is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body)
VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com,
judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com',
'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,
[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine
Privacy Program. To be removed from future offers,click here.
SmartReminders.com is a permission based service. To unsubscribe click here . ');
INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of
speak. He was the one who got into several bad deals and PPA"s in California
for CIN, thus he left on a bad note. Let me know if you need more detail
than that, I felt this was the type of info you were looking for. Thanks!
Ben');
INSERT INTO email([from],[to],subject,body)
VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not
Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this
requirement.');
INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based
rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion
the CAISO filed today? Apparently
they are requesting that FERC discontinue market-based rates immediately and
grant refunds plus interest on the difference between cost-based rates and
market revenues received back to May 2000. They are requesting the
commission act within 14 days. Have you heard anything about what they are
doing?

Marcie

http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf
');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com',
'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ----------

Nailia Dindarova
25/06/2001 15:36
To:
Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter
Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from
California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert.
He has now handed them to him in person but asked me to transmit them
electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically
projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters
of intent
Review Enron asset base for potential reuse/ licensing
Contract
negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ----------------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

');
INSERT INTO email([from],[to],subject,body)

VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution"s Capacity Available for Release - Sum', '---------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04
AM ----------

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution"s Capacity Available for Release - Sum

Attached is Columbia Distribution"s notice of capacity available for release
for
the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives
listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc
');
INSERT INTO
email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', '', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712..... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its
been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.
');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven''t talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I''m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an
Online RSVP Form on the Enron Law Conference Website at
http://lawconference.corp.enron.com. The website is still under construction
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are
coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I''ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP:

Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will
have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn"t sure whether he transmitted them
to you as well. Would you please
advise me if you would like them sent to you? I can email the MS Excel files
or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email,
or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL"s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben

Raimer to be Bush"s secretary of HHS? Just curious about that infamous UTMB
rumor mill. Hope things are well, happy holidays.
PL');
INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement',
'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '
Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body)
VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

w ww.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '',
'Jacques,

I sent you a fax of Kevin Kolb''s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY''s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if
you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com',
 'c..kenne@enron.com', 'RE: What about this too???', '

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',
'jworman@academyofhealth.com', '', 'Have a great weekend!   Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek
of Dashboard & Pipeline

Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks !

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001',
'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside
the U.S., please refer to the list below:

Australia:

1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');
INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000');
INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

  LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:
  1.92 / Final: 1.89)
 TRANS_TYPE: FINAL
 LOAD_ID: PGE4
 MKT_TYPE: 2
 TRANS_DATE: 4/22/01
 SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I''m seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week''s Lite Bytz presentation
 will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

```
http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
 }
} {}

###########################################################################
# Everything above just builds an interesting test database.  The actual
# tests come after this comment.
###########################################################################

do_test fts2c-1.2 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts2c-1.4 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark
 susan'
 }
} {40}
do_test fts2c-1.5 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts2c-1.6 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH '"mark susan"'
 }
} {}
do_test fts2c-1.7 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
 execsql {
  SELECT rowid FROM email WHERE email MATCH '-mark susan'
 }
} {24}
do_test fts2c-1.9 {
```

```
 execsql {
   SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column.  In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
 execsql {

   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
 execsql {
   SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child".  But only
# 3 of them are paired with "product".  Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
 execsql {
   SELECT rowid, offsets(email) FROM email
```

```
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0
  207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>
eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m.,
among others. <b>...</b>}}

do_test fts2c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> <b>...</b> intent
    Review Enron
  asset base for <b>potential</b> <b>reuse</b>/ licensing
    Contract negotiations <b>...</b>}}
do_test fts2c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>>  intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations  }}
do_test fts2c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
```

```
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal!  Congrats!  <<<Things>>> seem to be building rapidly now on the  }}
do_test fts2c-4.6 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me.  I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas
eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 {
 execsql {
   SELECT
 snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts2c-4.8 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3;  No <b>ancillary</b>
schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

   LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts2c-5.2 {
```

```
 execsql {
   SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b>
 six reports:

31 Keystone Receipts
15 <b>Questar</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.

```
# 2010 July 16
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

ifcapable !compound {
 finish_test
 return
}

do_execsql_test e_select-1.0 {
 CREATE TABLE t1(a, b);
 INSERT INTO t1 VALUES('a', 'one');
 INSERT INTO t1 VALUES('b', 'two');
 INSERT INTO t1 VALUES('c', 'three');
```

```
 CREATE TABLE t2(a, b);
 INSERT INTO t2 VALUES('a', 'I');
 INSERT INTO t2 VALUES('b', 'II');
 INSERT INTO t2 VALUES('c', 'III');

 CREATE TABLE t3(a, c);
 INSERT INTO
 t3 VALUES('a', 1);
 INSERT INTO t3 VALUES('b', 2);

 CREATE TABLE t4(a, c);
 INSERT INTO t4 VALUES('a', NULL);
 INSERT INTO t4 VALUES('b', 2);
} {}
set t1_cross_t2 [list               \
  a one   a I      a one   b II     \
  a one   c III    b two   a I      \
  b two   b II     b two   c III    \
  c three a I      c three b II     \
  c three c III                    \
]
set t1_cross_t1 [list                \
  a one   a one      a one   b two    \
  a one   c three    b two   a one    \
  b two   b two      b two   c three  \
  c three a one      c three b two    \
  c three c three                    \
]


# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",",
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
#
#   * s/%JOIN%/,/
#   * s/%JOIN%/JOIN/
#
   * s/%JOIN%/INNER JOIN/
#   * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
```

```
 foreach {tn2 joinop} [list    1 ,    2 "CROSS JOIN"    3 "INNER JOIN"] {
   set S [string map [list %JOIN% $joinop] $select]
   uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
 }
}

#-------------------------------------------------------------------------
# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
do_join_test e_select-0.1.1 {
 SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
 SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
 SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
 SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the
 same join}}
do_catchsql_test e_select-0.1.5 {
 SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
#   0: SELECT ...
#   1: SELECT DISTINCT ...
#   2: SELECT ALL ...
#
#   0: No FROM clause
#   1: Has FROM clause
#
#   0: No WHERE clause
#   1: Has WHERE clause
#
#   0: No GROUP BY clause
#   1: Has GROUP BY clause
#   2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
 0000.1  "SELECT 1, 2, 3 " {1 2 3}
 1000.1  "SELECT DISTINCT 1, 2, 3 " {1 2 3}
```

```
2000.1  "SELECT ALL 1, 2, 3 " {1 2 3}

0100.1  "SELECT a, b, a||b FROM t1 " {
  a one aone b two btwo c three cthree
}
1100.1  "SELECT DISTINCT a, b, a||b FROM t1 " {
  a one aone b two btwo c three cthree
}
1200.1  "SELECT ALL a, b, a||b FROM t1 " {
  a one aone b two btwo c three cthree
}

0010.1  "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
0010.2  "SELECT 1, 2, 3 WHERE 0 " {}
0010.3  "SELECT 1, 2, 3 WHERE NULL
" {}

1010.1  "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}

2010.1  "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0110.1  "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}
0110.2  "SELECT a, b, a||b FROM t1 WHERE a=='x'" {}

1110.1  "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
  a one aone b two btwo c three cthree
}

2110.0  "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'" {}

0001.1  "SELECT 1, 2, 3 GROUP BY 2" {1 2 3}
0002.1  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
0002.2  "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

1001.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2" {1 2 3}
1002.1  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1002.2  "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

2001.1  "SELECT ALL 1, 2, 3 GROUP BY 2" {1 2 3}
2002.1  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
2002.2  "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

0101.1  "SELECT count(*),
max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0102.1  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
  1 a 1 c 1 b
```

```
}
0102.2  "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1  "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1102.1  "SELECT DISTINCT count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=1" {
 1 a 1 c 1 b
}
1102.2  "SELECT DISTINCT count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
}

2101.1  "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2102.1  "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=1" {
 1 a 1 c 1 b
}
2102.2  "SELECT ALL count(*), max(a) FROM t1
        GROUP BY b HAVING count(*)=2" {
}

0011.1  "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1  "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2  "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1  "SELECT
DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1  "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1"
       {1 2 3}
1012.2  "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1  "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1  "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2  "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1  "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1  "SELECT count(*), max(a) FROM t1
        WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}
0112.2  "SELECT count(*), max(a) FROM t1
        WHERE 0 GROUP BY b HAVING count(*)=2" { }
1111.1  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<'c' GROUP BY b"
       {1 a 1 b}
1112.1  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
        GROUP BY b HAVING count(*)=1" {
 1 c 1 b
}
1112.2  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
        GROUP BY b HAVING
```

```
count(*)=2" {
}

2111.1  "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
       {1 c 1 b}
2112.1  "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
        GROUP BY b HAVING count(*)=1" {
  1 a 1 c
}
2112.2  "SELECT ALL count(*), max(a) FROM t1
        WHERE 0 GROUP BY b HAVING count(*)=2" { }
}


# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
 1  "SELECT * FROM t1" {a one b two c three}
 2  "SELECT t1.* FROM t1" {a one b two c three}
 3  "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
 4  "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
 5  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
 1  "SELECT t1.rowid FROM t1" {1 2 3}
 2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
 3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 1 2 2 2 2 2 2 3
 3 3 3 3 3}

 4  "SELECT t1.rowid FROM t1" {1 2 3}
 5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
 6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
   {1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}

 7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
 8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
 9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
 10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
 11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}

 12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
 13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
 14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
```

```
 15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
 16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
do_select_tests e_select-0.5 {
 1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
 2  "SELECT rowid FROM t1 UNION
    SELECT rowid+2 FROM t4" {1 2 3 4}
 3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
 4  "SELECT rowid FROM t1 EXCEPT    SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
do_select_tests e_select-0.6 {
 1  "SELECT b||a FROM t1 ORDER BY b||a"                {onea threec twob}
 2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
 3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC"          {onea threec twob}
 4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC"         {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#
do_select_tests e_select-0.7 {
 1  "SELECT * FROM t1" {a one b two c three}
 2  "SELECT * FROM t1 ORDER BY b" {a one c three b two}
 3  "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}

 4  "SELECT * FROM t1 LIMIT 10" {a one b two c three}
 5  "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
 6  "SELECT * FROM t1 LIMIT 10, 5" {}

 7  "SELECT * FROM t1 ORDER
 BY a LIMIT 10" {a one b two c three}
 8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
 9  "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}

 10  "SELECT * FROM t1 UNION SELECT b, a FROM t1"
   {a one b two c three one a three c two b}
 11  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b"
   {one a two b three c a one c three b two}
 12  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a"
   {one a two b three c a one c three b two}
 13  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10"
   {a one b two c three one a three c two b}
 14  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
```

```
   {two b}
 15  "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {}
 16  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
   {a one b two c three one a three c two b}
 17  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
   {b two}
 18  "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER
 BY a,b LIMIT 10, 5"
   {}
}

#-------------------------------------------------------------------------
# The following tests focus on FROM clause (join) processing.
#

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#
do_select_tests e_select-1.1 {
 1 "SELECT 'abc'"           {abc}
 2 "SELECT 'abc' WHERE NULL" {}
 3 "SELECT NULL"            {{}}
 4 "SELECT count(*)"        {1}
 5 "SELECT count(*) WHERE 0" {0}
 6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
#   The results of the SELECT queries suggest that they are operating on the
#   contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
 CREATE TABLE xx(x, y);
 INSERT INTO xx VALUES('IiJlsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
  INSERT INTO xx VALUES(NULL, -16.87);
 INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}
do_select_tests e_select-1.2 {
 1  "SELECT quote(x), quote(y) FROM xx" {
   'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
   NULL            -16.87
   -17.89          'linguistically'
 }
```

```
 2  "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
 3  "SELECT sum(x), sum(y) FROM xx"              {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
#   There are more detailed tests for subsequent requirements that add
#   more detail to this idea. We just add a single test that shows that
#   data is coming from each of the three tables following the FROM clause
#   here to show that the statement, vague
 as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
 1 "SELECT * FROM t1, t2, t3" {
    a one a I a 1 a one a I b 2 a one b II a 1
    a one b II b 2 a one c III a 1 a one c III b 2
    b two a I a 1 b two a I b 2 b two b II a 1
    b two b II b 2 b two c III a 1 b two c III b 2
    c three a I a 1 c three a I b 2 c three b II a 1
    c three b II b 2 c three c III a 1 c three c III b 2
 }
}

#
# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (",") and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
#    The tests are built on this assertion. Really, they test that the output
#    of a CROSS JOIN, JOIN,
 INNER JOIN or "," join matches the expected result
#    of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
```

```
#    All tests are run 4 times, with the only difference in each run being
#    which of the 4 equivalent cartesian product join operators are used.
#    Since the output data is the same in all cases, we consider that this
#    qualifies as testing the two statements above.
#
do_execsql_test e_select-1.4.0 {
 CREATE TABLE x1(a, b);
 CREATE TABLE x2(c, d, e);
 CREATE TABLE x3(f, g, h, i);

 -- x1: 3 rows, 2 columns
 INSERT INTO x1 VALUES(24, 'converging');
 INSERT INTO x1 VALUES(NULL, X'CB71');
 INSERT INTO x1 VALUES('blonds', 'proprietary');

 -- x2: 2 rows, 3 columns
 INSERT INTO x2 VALUES(-60.06, NULL,
 NULL);
 INSERT INTO x2 VALUES(-58, NULL, 1.21);

 -- x3: 5 rows, 4 columns
 INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
 INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
 INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
 INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
 INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
} {}

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product
# dataset are, in order, all the columns of the left-hand dataset
# followed by all the columns of the right-hand dataset.
#
do_join_test e_select-1.4.1.1 {
 SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
 SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
 SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
 SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat
```

```
 {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product
# dataset formed by combining each unique combination of a row from the
# left-hand and right-hand datasets.
#
do_join_test e_select-1.4.2.1 {
 SELECT * FROM x2 %JOIN% x3
} [list -60.06 {} {}      -39.24 {} encompass -1                \
      -60.06 {} {}      presenting 51 reformation dignified    \
      -60.06 {} {}      conducting -87.24 37.56 {}             \
      -60.06 {} {}      coldest -96 dramatists 82.3            \
      -60.06 {} {}      alerting {} -93.79 {}                  \
      -58 {} 1.21       -39.24 {} encompass -1                 \
      -58 {} 1.21       presenting 51 reformation dignified    \
      -58 {} 1.21       conducting -87.24 37.56 {}             \
      -58 {} 1.21       coldest -96 dramatists 82.3            \
      -58 {} 1.21       alerting {} -93.79 {}                  \
]
# TODO: Come back and add a few more like
 the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#
# x1, x2    (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
 SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
 expr {[llength [execsql {SELECT * FROM x1, x2}]] / 6}
} [expr 2+3]

# x2, x3    (Nlhs=2, Nrhs=5)   (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
 SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
 expr {[llength [execsql {SELECT * FROM x2 JOIN x3}]] / 10}
} [expr 3+4]

# x3, x1    (Nlhs=5, Nrhs=3)   (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
 SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
```

```
 expr {[llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 15}
} [expr 4+2]

# x3, x3    (Nlhs=5,
 Nrhs=5)   (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
 SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
 expr {[llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25}
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y} $t1_cross_t1

do_select_tests e_select-1.4.5 [list                              \
  1 { SELECT * FROM t1 CROSS JOIN t2 }          $t1_cross_t2       \
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1       \
  3 { SELECT * FROM t1 INNER JOIN t2 }          $t1_cross_t2       \
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1       \
]



# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which
 the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list                                      \
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) }       $t1_cross_t2           \
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) }       [list]                 \
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) }    [list]                 \
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') }   [list]                 \
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') }   $t1_cross_t2           \
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) }     $t1_cross_t2           \
  7 { SELECT * FROM t1 %JOIN% t2 ON ('0.9') }   $t1_cross_t2           \
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) }     [list]                 \
                                                \
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) }           \
    {one I two II three III}                                \

 10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') }            \
    {one I one II one III}                                  \
 11 { SELECT t1.b, t2.b
      FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } \
```

```
    {two I two II two III three I three II three III}                  \
] {
 do_join_test e_select-1.3.$tn $select $res
}

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
#
do_select_tests e_select-1.4 -error {
 cannot join using column %s - column not present in both tables
} {
 1 { SELECT * FROM t1, t3 USING (b) }   "b"
 2 { SELECT * FROM t3, t1 USING (c) }   "c"
 3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) }   "a"
}

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the
# expression "lhs.X = rhs.X" is evaluated for each row of
 the cartesian
# product as a boolean expression. All rows for which one or more of the
# expressions evaluates to false are excluded from the result set.
#
do_select_tests e_select-1.5 {
 1 { SELECT * FROM t1, t3 USING (a)   }  {a one 1 b two 2}
 2 { SELECT * FROM t3, t4 USING (a,c) }  {b 2}
}

# EVIDENCE-OF: R-54046-48600 When comparing values as a result of a
# USING clause, the normal rules for handling affinities, collation
# sequences and NULL values in comparisons apply.
#
# EVIDENCE-OF: R-35466-18578 The column from the dataset on the
# left-hand side of the join operator is considered to be on the
# left-hand side of the comparison operator (=) for the purposes of
# collation sequence and affinity precedence.
#
do_execsql_test e_select-1.6.0 {
 CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
 INSERT INTO t5 VALUES('AA', 'cc');
 INSERT INTO t5 VALUES('BB', 'dd');
 INSERT INTO t5 VALUES(NULL, NULL);
 CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
 INSERT INTO
 t6 VALUES('aa', 'cc');
 INSERT INTO t6 VALUES('bb', 'DD');
 INSERT INTO t6 VALUES(NULL, NULL);
} {}
```

```
foreach {tn select res} {
 1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
 2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {}
 3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
   {aa cc cc bb DD dd}
 4 { SELECT * FROM t5 %JOIN% t6 USING (a,b) } {AA cc}
 5 { SELECT * FROM t6 %JOIN% t5 USING (a,b) } {}
} {
 do_join_test e_select-1.6.$tn $select $res
}

# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach {tn select res} {
 1a { SELECT * FROM t1 %JOIN% t2 USING (a)      }
    {a one I b two II c three III}
 1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
    {a one a I b two b II c three c III}

 2a {
 SELECT * FROM t3 %JOIN% t4 USING (a)      }
    {a 1 {} b 2 2}
 2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
    {a 1 a {} b 2 b 2}

 3a { SELECT * FROM t3 %JOIN% t4 USING (a,c)                } {b 2}
 3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) } {b 2 b 2}

 4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
      %JOIN% t5 USING (a) }
    {aa cc cc bb DD dd}
 4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
      %JOIN% t5 ON (x.a=t5.a) }
    {aa cc AA cc bb DD BB dd}
} {
 do_join_test e_select-1.7.$tn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
```

```
#
do_execsql_test e_select-1.8.0 {
 CREATE TABLE t7(a, b, c);
 CREATE TABLE t8(a, d, e);

 INSERT
 INTO t7 VALUES('x', 'ex',  24);
 INSERT INTO t7 VALUES('y', 'why', 25);

 INSERT INTO t8 VALUES('x', 'abc', 24);
 INSERT INTO t8 VALUES('z', 'ghi', 26);
} {}

do_select_tests e_select-1.8 {
 1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
 1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
 2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
 2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}


# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
do_select_tests e_select-1.9 {
 1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
 1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
    {x ex 24 x abc 24 y why 25 {} {} {}}
 2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
 2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
#
 the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#
do_select_tests e_select-1-10 {
 1a "SELECT * FROM t7 JOIN t8 USING (a)"        {x ex 24 abc 24}
 1b "SELECT * FROM t7 NATURAL JOIN t8"          {x ex 24 abc 24}

 2a "SELECT * FROM t8 JOIN t7 USING (a)"        {x abc 24 ex 24}
 2b "SELECT * FROM t8 NATURAL JOIN t7"          {x abc 24 ex 24}

 3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)"   {x ex 24 abc 24 y why 25 {} {}}
```

```
 3b "SELECT * FROM t7 NATURAL LEFT JOIN t8"     {x ex 24 abc 24 y why 25 {} {}}

 4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)"   {x abc 24 ex 24 z ghi 26 {} {}}
 4b "SELECT * FROM t8 NATURAL LEFT JOIN t7"     {x abc 24 ex 24 z ghi 26 {} {}}

 5a "SELECT * FROM t3 JOIN t4 USING (a,c)"      {b 2}
 5b "SELECT * FROM t3 NATURAL JOIN t4"          {b 2}

 6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
  6b "SELECT * FROM t3 NATURAL LEFT JOIN t4"     {a 1 b 2}
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
# on the results of the join.
#
do_execsql_test e_select-1.11.0 {
 CREATE TABLE t10(x, y);
 INSERT INTO t10 VALUES(1, 'true');
 INSERT INTO t10 VALUES(0, 'false');
} {}
do_select_tests e_select-1-11 {
 1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
 1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
}

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
foreach {tn sql} {
 1 {SELECT * FROM t1 NATURAL LEFT JOIN t2 USING (a)}
 2 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (t1.a=t2.a)}
 3 {SELECT * FROM t1 NATURAL LEFT JOIN t2 ON (45)}
} {
 do_catchsql_test e_select-1.12.$tn "
   $sql
 " {1 {a NATURAL join may not have an ON or USING clause}}
}

#-------------------------------------------------------------------------
#
 The next block of tests - e_select-3.* - concentrate on verifying
# statements made regarding WHERE clause processing.
#
drop_all_tables
do_execsql_test e_select-3.0 {
 CREATE TABLE x1(k, x, y, z);
 INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
```

```
 INSERT INTO x1 VALUES(2, X'A8E8D66F',    X'07CF',   -81);
 INSERT INTO x1 VALUES(3, -22,           -27.57,    NULL);
 INSERT INTO x1 VALUES(4, NULL,          'bygone',  'picky');
 INSERT INTO x1 VALUES(5, NULL,          96.28,     NULL);
 INSERT INTO x1 VALUES(6, 0,             1,         2);

 CREATE TABLE x2(k, x, y2);
 INSERT INTO x2 VALUES(1, 50, X'B82838');
 INSERT INTO x2 VALUES(5, 84.79, 65.88);
 INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
 INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');
} {}

# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression.
 All rows for which the WHERE clause expression evaluates
# to false are excluded from the dataset before continuing.
#
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x }        {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y }        {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z }        {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z    } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}

do_execsql_test e_select-3.2.1a {
 SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
 SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
 SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2 4 6}

do_execsql_test e_select-3.2.3 {
 SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
 SELECT k FROM x1
 NATURAL JOIN x2 WHERE x2.k-3
} {}

#-------------------------------------------------------------------------
# Tests below this point are focused on verifying the testable statements
# related to caculating the result rows of a simple SELECT statement.
#
```

```
drop_all_tables
do_execsql_test e_select-4.0 {
 CREATE TABLE z1(a, b, c);
 CREATE TABLE z2(d, e);
 CREATE TABLE z3(a, b);

 INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
 INSERT INTO z1 VALUES(-5, NULL, 75);
 INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
 INSERT INTO z1 VALUES(NULL, 67, 'quartets');
 INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
 INSERT INTO z1 VALUES(63, 'born', -26);

 INSERT INTO z2 VALUES(NULL, 21);
 INSERT INTO z2 VALUES(36, 6);

 INSERT INTO z3 VALUES('subsistence', 'gauze');
 INSERT INTO z3 VALUES(49.17, -67);
} {}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF:
 R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
 1  "SELECT * FROM z1 LIMIT 1"            {51.65 -59.58 belfries}
 2  "SELECT * FROM z1,z2 LIMIT 1"         {51.65 -59.58 belfries {} 21}
 3  "SELECT z1.* FROM z1,z2 LIMIT 1"      {51.65 -59.58 belfries}
 4  "SELECT z2.* FROM z1,z2 LIMIT 1"      {{} 21}
 5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}

 6  "SELECT count(*), * FROM z1"          {6 63 born -26}
 7  "SELECT max(a), * FROM z1"            {63 63 born -26}
 8  "SELECT *, min(a) FROM z1"            {-5 {} 75 -5}

 9  "SELECT *,* FROM z1,z2 LIMIT 1" {
   51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
 }
 10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1" {
   51.65 -59.58 belfries 51.65 -59.58 belfries
 }
}
```

```
# EVIDENCE-OF: R-61869-22578
 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
 1.1  "SELECT a, b, c FROM z1 WHERE *"    {near "*": syntax error}
 1.2  "SELECT a, b, c FROM z1 GROUP BY *" {near "*": syntax error}
 1.3  "SELECT 1 + * FROM z1"              {near "*": syntax error}
 1.4  "SELECT * + 1 FROM z1"              {near "+": syntax error}

 2.1 "SELECT *" {no tables specified}
 2.2 "SELECT * WHERE 1" {no tables specified}
 2.3 "SELECT * WHERE 0" {no tables specified}
 2.4 "SELECT count(*), *" {no tables specified}
} {
 do_catchsql_test e_select-4.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned
# by a simple SELECT statement is equal to the number of expressions in
# the result expression list after substitution
 of * and alias.*
# expressions.
#
foreach {tn select nCol} {
 1   "SELECT * FROM z1"   3
 2   "SELECT * FROM z1 NATURAL JOIN z3"           3
 3   "SELECT z1.* FROM z1 NATURAL JOIN z3"        3
 4   "SELECT z3.* FROM z1 NATURAL JOIN z3"        2
 5   "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"   5
 6   "SELECT 1, 2, z1.* FROM z1"                  5
 7   "SELECT a, *, b, c FROM z1"                  6
} {
 set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
 do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
 sqlite3_finalize $::stmt
}



# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
```

```
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
#
 EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#

# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
 1 "SELECT a, b FROM z1"
   {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born}

 2 "SELECT a IS NULL, b+1, * FROM z1" {
      0 -58.58   51.65 -59.58 belfries
      0 {}       -5 {} 75
      0 -22.18   -2.2 -23.18 suiters
      1 68       {} 67 quartets
      0 -31.3    -1.04 -32.3 aspen
      0 1        63 born -26
 }

 3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}


# Test cases e_select-4.5.*
 and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# clause.
#

# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate
# query without a GROUP BY clause, then each aggregate expression in the
# result-set is evaluated once across the entire dataset.
#
do_select_tests e_select-4.5 {
```

```
 1 "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
 2 "SELECT count(*), max(1)"                                {1 1}

 3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
 4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
 5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
#
 EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
#   Note: The results of many of the queries in this block of tests are
#   technically undefined, as the documentation does not specify which row
#   SQLite will arbitrarily select to use for the evaluation of the
#   non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
 CREATE TABLE a1(one PRIMARY KEY, two);
 INSERT INTO a1 VALUES(1, 1);
 INSERT INTO a1 VALUES(2, 3);
 INSERT INTO a1 VALUES(3, 6);
 INSERT INTO a1 VALUES(4, 10);

 CREATE TABLE a2(one PRIMARY KEY, three);
 INSERT INTO a2 VALUES(1, 1);
 INSERT INTO a2 VALUES(3, 2);
 INSERT INTO a2 VALUES(6, 3);
 INSERT INTO a2 VALUES(10, 4);
} {}
do_select_tests e_select-4.6 {
 1 "SELECT one, two, count(*) FROM a1"                      {4 10 4}
 2 "SELECT one, two, count(*) FROM a1 WHERE one<3"          {2 3 2}
 3 "SELECT one, two, count(*) FROM a1 WHERE one>3"          {4 10
 1}
 4 "SELECT *, count(*) FROM a1 JOIN a2"                     {4 10 10 4 16}
 5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"           {3 6 2 3}
 6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"           {3 6 2 3}
 7 "SELECT group_concat(three, ''), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
```

```
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
 1  "SELECT one, two, count(*) FROM a1 WHERE 0"          {{} {} 0}
 2  "SELECT sum(two), * FROM a1, a2 WHERE three>5"       {{} {} {} {} {}}
 3  "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {
   1 1 1
 }
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
 8.1  "SELECT count(*) FROM a1"
 8.2  "SELECT count(*) FROM
 a1 WHERE 0"
 8.3  "SELECT count(*) FROM a1 WHERE 1"
 8.4  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
 8.5  "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
} {
 # Set $nRow to the number of rows returned by $select:
 set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
 set nRow 0
 while {"SQLITE_ROW" == [sqlite3_step $::stmt]} { incr nRow }
 set rc [sqlite3_finalize $::stmt]

 # Test that $nRow==1 and that statement execution was successful
 # (rc==SQLITE_OK).
 do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}

drop_all_tables
do_execsql_test e_select-4.9.0 {
 CREATE TABLE b1(one PRIMARY KEY, two);
 INSERT INTO b1 VALUES(1, 'o');
 INSERT INTO b1 VALUES(4, 'f');
 INSERT INTO b1 VALUES(3, 't');
 INSERT INTO b1 VALUES(2, 't');
 INSERT INTO b1 VALUES(5, 'f');
 INSERT INTO b1 VALUES(7, 's');
 INSERT INTO b1 VALUES(6, 's');

 CREATE TABLE b2(x, y);
 INSERT INTO b2 VALUES(NULL, 0);
 INSERT INTO b2 VALUES(NULL, 1);
 INSERT
```

```
 INTO b2 VALUES('xyz', 2);
 INSERT INTO b2 VALUES('abc', 3);
 INSERT INTO b2 VALUES('xyz', 4);

 CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
 INSERT INTO b3 VALUES('abc', 'abc');
 INSERT INTO b3 VALUES('aBC', 'aBC');
 INSERT INTO b3 VALUES('Def', 'Def');
 INSERT INTO b3 VALUES('dEF', 'dEF');
} {}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate
# query with a GROUP BY clause, then each of the expressions specified
# as part of the GROUP BY clause is evaluated for each row of the
# dataset. Each row is then assigned to a "group" based on the results;
# rows for which the results of evaluating the GROUP BY expressions are
# the same are assigned to the same group.
#
#   These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
 1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
  /#,#
 f   1 o   #,#   s #,# t/
 }
 2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
  1,2,3,4 10    5,6,7 18
 }
 3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
  4  1,5    2,6   3,7
 }
 4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
  4,3,5,7,6    1,2
 }
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL
# values are considered equal.
#
do_select_tests e_select-4.10 {
 1  "SELECT group_concat(y) FROM b2 GROUP BY x" {/#,#   3   #,#/}
 2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation
```

```
# sequence with which to compare text values apply when evaluating
# expressions in a GROUP BY clause.
#
do_select_tests e_select-4.11 {
 1  "SELECT count(*) FROM b3 GROUP BY b"      {1 1 1 1}
 2  "SELECT count(*) FROM b3 GROUP BY a"      {2 2}
 3  "SELECT count(*) FROM b3 GROUP BY +b"     {1 1 1 1}
 4  "SELECT
 count(*) FROM b3 GROUP BY +a"     {2 2}
 5  "SELECT count(*) FROM b3 GROUP BY b||''"  {1 1 1 1}
 6  "SELECT count(*) FROM b3 GROUP BY a||''"  {1 1 1 1}
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may
# not be aggregate expressions.
#
foreach {tn select} {
 12.1  "SELECT * FROM b3 GROUP BY count(*)"
 12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
 12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
 set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
 do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is
# evaluated once for each group of rows as a boolean expression. If the
# result of evaluating the HAVING clause is false, the group is
# discarded.
#
#   This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
#   Tested by e_select-4.13.1.*
#
#
 EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
#   Tested by e_select-4.13.2.*
#
#   Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
```

```
#
do_execsql_test e_select-4.13.0 {
 CREATE TABLE c1(up, down);
 INSERT INTO c1 VALUES('x', 1);
 INSERT INTO c1 VALUES('x', 2);
 INSERT INTO c1 VALUES('x', 4);
 INSERT INTO c1 VALUES('x', 8);
 INSERT INTO c1 VALUES('y', 16);
 INSERT INTO c1 VALUES('y', 32);

 CREATE TABLE c2(i, j);
 INSERT INTO c2 VALUES(1, 0);
 INSERT INTO c2 VALUES(2, 1);
 INSERT INTO c2 VALUES(3, 3);
 INSERT INTO c2 VALUES(4, 6);
 INSERT INTO c2 VALUES(5, 10);
 INSERT INTO c2 VALUES(6, 15);
 INSERT INTO c2 VALUES(7, 21);
 INSERT INTO c2 VALUES(8, 28);
 INSERT INTO c2 VALUES(9, 36);

 CREATE TABLE c3(i PRIMARY
 KEY, k TEXT);
 INSERT INTO c3 VALUES(1,  'hydrogen');
 INSERT INTO c3 VALUES(2,  'helium');
 INSERT INTO c3 VALUES(3,  'lithium');
 INSERT INTO c3 VALUES(4,  'beryllium');
 INSERT INTO c3 VALUES(5,  'boron');
 INSERT INTO c3 VALUES(94, 'plutonium');
} {}

do_select_tests e_select-4.13 {
 1.1  "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
 1.2  "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
 1.3  "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
 1.4  "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}

 2.1  "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
 2.2  "SELECT up FROM c1 GROUP BY up HAVING up='y'"  {y}

 2.3  "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6"  {9 36}
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
```

```
#
do_select_tests e_select-4.15
 {
 1  "SELECT sum(down) FROM c1 GROUP BY up" {15 48}
 2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"     {54 36 27 21 39 28}
 3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"     {80 36 40 21}
 4  "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
 5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
      {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
 1  "SELECT i, j FROM c2 GROUP BY i%2"            {8 28   9 36}
 2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
 3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
 4  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
 5  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP
 BY substr(k, 1, 1)"
      {2 5 boron   2 2 helium   1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows
# contributes a single row to the set of result rows.
#
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
 1  "SELECT i, j FROM c2 GROUP BY i%2"         2
 2  "SELECT i, j FROM c2 GROUP BY i"           9
 3  "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

#-------------------------------------------------------------------------
# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
```

```
do_execsql_test e_select-5.1.0 {
 CREATE TABLE h1(a, b);
 INSERT INTO h1 VALUES(1, 'one');
 INSERT INTO h1 VALUES(1, 'I');
  INSERT INTO h1 VALUES(1, 'i');
 INSERT INTO h1 VALUES(4, 'four');
 INSERT INTO h1 VALUES(4, 'IV');
 INSERT INTO h1 VALUES(4, 'iv');

 CREATE TABLE h2(x COLLATE nocase);
 INSERT INTO h2 VALUES('One');
 INSERT INTO h2 VALUES('Two');
 INSERT INTO h2 VALUES('Three');
 INSERT INTO h2 VALUES('Four');
 INSERT INTO h2 VALUES('one');
 INSERT INTO h2 VALUES('two');
 INSERT INTO h2 VALUES('three');
 INSERT INTO h2 VALUES('four');

 CREATE TABLE h3(c, d);
 INSERT INTO h3 VALUES(1, NULL);
 INSERT INTO h3 VALUES(2, NULL);
 INSERT INTO h3 VALUES(3, NULL);
 INSERT INTO h3 VALUES(4, '2');
 INSERT INTO h3 VALUES(5, NULL);
 INSERT INTO h3 VALUES(6, '2,3');
 INSERT INTO h3 VALUES(7, NULL);
 INSERT INTO h3 VALUES(8, '2,4');
 INSERT INTO h3 VALUES(9, '3');
} {}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
 1  "SELECT ALL a FROM h1"     {1 1 1 4 4 4}
 2  "SELECT
 DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
```

```
# is returned.
#
#   The three testable statements above are tested by e_select-5.2.*,
#   5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
 3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
 3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

 3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
 3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

 4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
 4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of
 detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
 1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
 1  "SELECT DISTINCT b FROM h1"                {one I i four IV iv}
 2  "SELECT DISTINCT b COLLATE nocase FROM h1"   {one I four IV}
 3  "SELECT DISTINCT x FROM h2"                {One Two Three Four}
 4  "SELECT DISTINCT x COLLATE binary FROM h2"   {
   One Two Three Four one two three four
 }
}

#-------------------------------------------------------------------------
# The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#

# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
#   All the other tests in this section use compound SELECTs
 created
#   using component SELECTs that do return the same number of columns.
#   So the tests here just show that it is an error to attempt otherwise.
```

```
#
drop_all_tables
do_execsql_test e_select-7.1.0 {
 CREATE TABLE j1(a, b, c);
 CREATE TABLE j2(e, f);
 CREATE TABLE j3(g);
} {}
do_select_tests e_select-7.1 -error {
 SELECTs to the left and right of %s do not have the same number of result columns
} {
 1  "SELECT a, b FROM j1    UNION ALL SELECT g FROM j3"    {{UNION ALL}}
 2  "SELECT *    FROM j1    UNION ALL SELECT * FROM j3"    {{UNION ALL}}
 3  "SELECT a, b FROM j1    UNION ALL SELECT g FROM j3"    {{UNION ALL}}
 4  "SELECT a, b FROM j1    UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
 5  "SELECT *    FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}

 6  "SELECT a, b FROM j1    UNION SELECT g FROM j3"        {UNION}
 7  "SELECT *    FROM j1    UNION SELECT * FROM j3"        {UNION}
 8  "SELECT a, b FROM j1    UNION SELECT g FROM j3"        {UNION}
 9  "SELECT a, b FROM j1    UNION SELECT * FROM j3,j2"     {UNION}
 10 "SELECT *    FROM j3,j2 UNION SELECT a, b FROM j1"     {UNION}

 11 "SELECT a, b FROM j1    INTERSECT SELECT g FROM j3"    {INTERSECT}
 12 "SELECT *    FROM j1    INTERSECT SELECT * FROM j3"    {INTERSECT}
 13 "SELECT a, b FROM j1    INTERSECT SELECT g FROM j3"    {INTERSECT}
 14 "SELECT a, b FROM j1    INTERSECT SELECT * FROM j3,j2" {INTERSECT}
 15 "SELECT *    FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}

 16 "SELECT a, b FROM j1    EXCEPT SELECT g FROM j3"       {EXCEPT}
 17 "SELECT *    FROM j1    EXCEPT SELECT * FROM j3"       {EXCEPT}
 18 "SELECT a, b FROM j1    EXCEPT SELECT g FROM j3"       {EXCEPT}
 19 "SELECT a, b FROM j1    EXCEPT SELECT * FROM j3,j2"    {EXCEPT}
 20 "SELECT *    FROM j3,j2 EXCEPT SELECT a, b FROM j1"    {EXCEPT}
}

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must
# be simple SELECT statements, they may not contain ORDER BY or LIMIT
#
 clauses.
#
foreach {tn select op1 op2} {
 1  "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
    {ORDER BY} {UNION ALL}
 2  "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
    {ORDER BY} {UNION ALL}
 3  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"
    {ORDER BY} {UNION ALL}
 4  "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
```

```
   LIMIT {UNION ALL}
5  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
   LIMIT {UNION ALL}
6  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
   LIMIT {UNION ALL}

7  "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
   {ORDER BY} {UNION}
8  "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
   {ORDER BY} {UNION}
9  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"
   {ORDER BY} {UNION}
10 "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
   LIMIT
{UNION}
11 "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
   LIMIT {UNION}
12 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
   LIMIT {UNION}

13 "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
   {ORDER BY} {EXCEPT}
14 "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
   {ORDER BY} {EXCEPT}
15 "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"
   {ORDER BY} {EXCEPT}
16 "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
   LIMIT {EXCEPT}
17 "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
   LIMIT {EXCEPT}
18 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
   LIMIT {EXCEPT}

19 "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
   {ORDER BY} {INTERSECT}
20 "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
   {ORDER BY} {INTERSECT}
21 "SELECT count(*), * FROM j1 ORDER
BY 1,2,3 INTERSECT SELECT *,* FROM j2"
   {ORDER BY} {INTERSECT}
22 "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
23 "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
24 "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
   LIMIT {INTERSECT}
} {
set err "$op1 clause should come after $op2 not before"
```

```
 do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
 1  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
 2  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
 3  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
 4  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
 5  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 6  "SELECT a
FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"

 7  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
 8  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
 9  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
 10  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
 11  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 12  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

 13  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
 14  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
 15  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
 16  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
 17  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 18  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

 19  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
 20  "SELECT count(*) FROM j1 INTERSECT SELECT
max(e) FROM j2 ORDER BY 1"
 21  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
 22  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
 23  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
 24  "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
} {
 do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION
# ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables
do_execsql_test e_select-7.4.0 {
 CREATE TABLE q1(a TEXT, b INTEGER, c);
 CREATE TABLE q2(d NUMBER, e BLOB);
```

```
CREATE TABLE q3(f REAL, g);

INSERT INTO q1 VALUES(16, -87.66, NULL);
INSERT INTO q1 VALUES('legible', 94, -42.47);
INSERT INTO q1 VALUES('beauty', 36, NULL);

INSERT INTO q2 VALUES('legible', 1);
INSERT INTO q2 VALUES('beauty', 2);
INSERT INTO q2 VALUES(-65.91,
4);
INSERT INTO q2 VALUES('emanating', -16.56);

INSERT INTO q3 VALUES('beauty', 2);
INSERT INTO q3 VALUES('beauty', 2);
} {}
do_select_tests e_select-7.4 {
 1   {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
    {16 legible beauty legible beauty -65.91 emanating}

 2   {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
    {16 -87.66 {} x legible 1}

 3   {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
    {3 -16.56}

 4   {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
    {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#
do_select_tests e_select-7.5 {
 1   {SELECT a FROM q1 UNION SELECT d FROM q2}
    {-65.91 16 beauty emanating legible}

 2   {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
    {16 -87.66 {} x legible 1}

 3   {SELECT
 count(*) FROM q1 UNION SELECT min(e) FROM q2}
    {-16.56 3}

 4   {SELECT * FROM q2 UNION SELECT * FROM q3}
    {-65.91 4 beauty 2 emanating -16.56 legible 1}
}
```

```
# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
#
do_select_tests e_select-7.6 {
 1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
 2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of
# rows returned by the left SELECT that are not also returned by the
# right-hand SELECT.
#
do_select_tests e_select-7.7 {
 1  {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}

 2  {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
    {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results
# of INTERSECT and EXCEPT operators before the result set is returned.
#
do_select_tests e_select-7.8 {
 0  {SELECT
 * FROM q3} {beauty 2 beauty 2}

 1  {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
 2  {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1}  {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate
# rows for the results of compound SELECT operators, NULL values are
# considered equal to other NULL values and distinct from all non-NULL
# values.
#
db nullvalue null
do_select_tests e_select-7.9 {
 1  {SELECT NULL UNION ALL SELECT NULL} {null null}
 2  {SELECT NULL UNION     SELECT NULL} {null}
 3  {SELECT NULL INTERSECT SELECT NULL} {null}
 4  {SELECT NULL EXCEPT    SELECT NULL} {}

 5  {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
 6  {SELECT NULL UNION     SELECT 'ab'} {null ab}
 7  {SELECT NULL INTERSECT SELECT 'ab'} {}
 8  {SELECT NULL EXCEPT    SELECT 'ab'} {null}

 9  {SELECT NULL UNION ALL SELECT 0} {null 0}
```

```
 10  {SELECT NULL UNION     SELECT 0} {null 0}
 11  {SELECT NULL INTERSECT SELECT 0} {}
 12  {SELECT NULL EXCEPT
   SELECT 0} {null}

 13  {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
 14  {SELECT c FROM q1 UNION     SELECT g FROM q3} {null -42.47 2}
 15  {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
 16  {SELECT c FROM q1 EXCEPT    SELECT g FROM q3} {null -42.47}
}
db nullvalue {}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
# text values is determined as if the columns of the left and right-hand
# SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
# collation sequence specified with the postfix COLLATE operator.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
 CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
 INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
 1   {SELECT 'abc'              UNION SELECT 'ABC'} {ABC abc}
 2   {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
 3   {SELECT 'abc'
        UNION SELECT 'ABC' COLLATE nocase} {ABC}
 4   {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
 5   {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}

 6   {SELECT a FROM y1 UNION SELECT b FROM y1}            {abc}
 7   {SELECT b FROM y1 UNION SELECT a FROM y1}            {Abc abc}
 8   {SELECT a FROM y1 UNION SELECT c FROM y1}            {aBC}

 9   {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
 CREATE TABLE w1(a TEXT, b NUMBER);
 CREATE TABLE w2(a, b TEXT);

 INSERT INTO w1 VALUES('1', 4.1);
 INSERT INTO w2 VALUES(1, 4.1);
```

```
} {}

do_select_tests e_select-7.11 {
 1  { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
 2  { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
 3  { SELECT b FROM w1 UNION SELECT
 b FROM w2 } {4.1 4.1}
 4  { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}

 5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
 6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
 7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
 8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}

 9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
 10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
 11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
 12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}


# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
#   e_select-7.12.1: Precedence of UNION vs. INTERSECT
#   e_select-7.12.2: Precedence of UNION vs. UNION ALL
#   e_select-7.12.3: Precedence of UNION vs. EXCEPT
#   e_select-7.12.4: Precedence of INTERSECT vs.
 UNION ALL
#   e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
#   e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
#   e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                    "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
 CREATE TABLE t1(x);
 INSERT INTO t1 VALUES(1);
 INSERT INTO t1 VALUES(2);
 INSERT INTO t1 VALUES(3);
} {}
foreach {tn select res} {
 1a "(1,2) INTERSECT (1)   UNION     (3)"   {1 3}
```

```
1b "(3)   UNION     (1,2) INTERSECT (1)"   {1}

2a "(1,2) UNION     (3)   UNION ALL (1)"   {1 2 3 1}
2b "(1)   UNION ALL (3)   UNION     (1,2)" {1 2 3}

3a "(1,2) UNION     (3)   EXCEPT    (1)"   {2 3}
3b "(1,2) EXCEPT    (3)   UNION     (1)"   {1 2}

4a "(1,2) INTERSECT (1)   UNION ALL (3)"   {1 3}
4b "(3)   UNION     (1,2) INTERSECT (1)"   {1}

5a "(1,2) INTERSECT (2)   EXCEPT
   (2)"   {}
5b "(2,3) EXCEPT    (2)   INTERSECT (2)"   {}

6a "(2)   UNION ALL (2)   EXCEPT    (2)"   {}
6b "(2)   EXCEPT    (2)   UNION ALL (2)"   {2}

 7  "(2,3) EXCEPT    (2)   EXCEPT    (3)"   {}
} {
 set select [string map {( {SELECT x FROM t1 WHERE x IN (}} $select]
 do_execsql_test e_select-7.12.$tn $select [list {*}$res]
}


#-------------------------------------------------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
 CREATE TABLE d1(x, y, z);

 INSERT INTO d1 VALUES(1, 2, 3);
 INSERT INTO d1 VALUES(2, 5, -1);
 INSERT INTO d1 VALUES(1, 2, 8);
 INSERT INTO d1 VALUES(1, 2, 7);
 INSERT INTO d1 VALUES(2, 4, 93);
 INSERT INTO d1 VALUES(1, 2, -20);
 INSERT INTO d1 VALUES(1, 4, 93);
 INSERT INTO d1 VALUES(1, 5, -1);

 CREATE TABLE d2(a, b);
 INSERT INTO d2 VALUES('gently', 'failings');
 INSERT INTO d2 VALUES('commercials', 'bathrobe');
 INSERT INTO d2 VALUES('iterate', 'sexton');
 INSERT INTO d2 VALUES('babied',
```

```
 'charitableness');
 INSERT INTO d2 VALUES('solemnness', 'annexed');
 INSERT INTO d2 VALUES('rejoicing', 'liabilities');
 INSERT INTO d2 VALUES('pragmatist', 'guarded');
 INSERT INTO d2 VALUES('barked', 'interrupted');
 INSERT INTO d2 VALUES('reemphasizes', 'reply');
 INSERT INTO d2 VALUES('lad', 'relenting');
} {}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
do_select_tests e_select-8.1 {
 1  "SELECT * FROM d1 ORDER BY x, y, z" {
   1 2 -20    1 2 3    1 2 7    1 2 8
   1 4  93    1 5 -1   2 4 93   2 5 -1
 }
}

# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
#   Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or
 DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
#   Test cases e_select-8.3.* test the above. All 8.3 test cases are
#   copies of 8.2 test cases with the explicit "ASC" removed.
#
do_select_tests e_select-8 {
 2.1  "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
   1 2 -20    1 2 3    1 2 7    1 2 8
   1 4  93    1 5 -1   2 4 93   2 5 -1
 }
 2.2  "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
   2 5 -1     2 4 93   1 5 -1   1 4  93
   1 2 8      1 2 7    1 2 3    1 2 -20
 }
 2.3 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
   2 4 93   2 5 -1     1 2 8      1 2 7
   1 2 3    1 2 -20    1 4  93    1 5 -1
 }
 2.4  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
   2 4 93   2 5 -1     1 2 -20    1 2 3
```

```
  1 2 7    1 2 8      1 4  93    1 5 -1
}

3.1  "SELECT * FROM d1 ORDER BY x, y, z" {
  1 2 -20    1 2 3    1 2 7    1 2 8
  1 4  93    1 5 -1   2 4 93   2 5 -1
 }
3.3  "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
  2 4 93   2 5 -1     1 2 8      1 2 7
  1 2 3    1 2 -20    1 4  93    1 5 -1
}
3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
  2 4 93   2 5 -1     1 2 -20    1 2 3
  1 2 7    1 2 8      1 4  93    1 5 -1
}
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).
#
do_select_tests e_select-8.4 {
1  "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
  1 2 -20    1 2 3    1 2 7    1 2 8
  1 4  93    1 5 -1   2 4 93   2 5 -1
}
2  "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
  2 5 -1     2 4 93   1 5 -1   1 4  93
  1 2 8      1 2 7    1 2 3    1 2 -20
}
3 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
  2 4 93   2 5 -1     1 2 8      1 2 7
  1 2 3    1 2 -20    1 4  93    1 5
-1
}
4  "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
  2 4 93   2 5 -1     1 2 -20    1 2 3
  1 2 7    1 2 8      1 4  93    1 5 -1
}
5  "SELECT * FROM d1 ORDER BY 1, 2, 3" {
  1 2 -20    1 2 3    1 2 7    1 2 8
  1 4  93    1 5 -1   2 4 93   2 5 -1
}
6  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
  2 4 93   2 5 -1     1 2 8      1 2 7
  1 2 3    1 2 -20    1 4  93    1 5 -1
}
```

```
 7  "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
   2 4 93   2 5 -1    1 2 -20    1 2 3
   1 2 7    1 2 8     1 4  93    1 5 -1
 }
 8  "SELECT z, x FROM d1 ORDER BY 2" {
   /# 1    # 1    # 1   # 1
    # 1    # 1    # 2   # 2/
 }
 9  "SELECT z, x FROM d1 ORDER BY 1" {
   /-20 1  -1 #   -1 #   3 1
   7 1     8 1   93 #   93 #/
 }
}

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier
# that corresponds to the alias of one of the output columns, then the
# expression is considered an alias for that column.
#
do_select_tests
 e_select-8.5 {
 1   "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
  -19 0 0 4 8 9 94 94
 }
 2   "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
  94 94 9 8 4 0 0 -19
 }
 3  "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
  /# 1    # 1    # 1    # 1    # 1    # 1    # 2    # 2/
 }
 4  "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
  /-20 1    -1 #    -1 #    3 1    7 1    8 1    93 #    93 #/
 }
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.
#
# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.
#
do_select_tests e_select-8.6 {
 1   "SELECT * FROM d1 ORDER BY x+y+z" {
  1 2 -20    1 5 -1    1 2 3    2 5 -1
  1 2 7      1 2 8     1 4 93   2 4 93
 }
 2   "SELECT * FROM d1 ORDER BY x*z" {
  1 2 -20    2 5 -1    1 5 -1    1 2 3
```

```
  1 2 7     1 2 8     1
 4 93    2 4 93
 }
 3   "SELECT * FROM d1 ORDER BY y*z" {
  1 2 -20    2 5 -1    1 5 -1    1 2 3
  1 2 7     1 2 8     2 4 93    1 4 93
 }
}

# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.
#
do_select_tests e_select-8.7.1 -error {
 %s ORDER BY term does not match any column in the result set
} {
 1   "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z"        1st
 2   "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}

do_select_tests e_select-8.7.2 {
 1   "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
  -20 -2 -1 3 7 8 93 186 babied barked commercials gently
  iterate lad pragmatist reemphasizes rejoicing solemnness
 }
 2   "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
  1 -1 1 0 1 0 1 0 1 0 1 0 2 -2 2 0
  babied charitableness barked
 interrupted commercials bathrobe gently
  failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
  rejoicing liabilities solemnness annexed
 }
}

do_execsql_test e_select-8.8.0 {
 CREATE TABLE d3(a);
 INSERT INTO d3 VALUES('text');
 INSERT INTO d3 VALUES(14.1);
 INSERT INTO d3 VALUES(13);
 INSERT INTO d3 VALUES(X'78787878');
 INSERT INTO d3 VALUES(15);
 INSERT INTO d3 VALUES(12.9);
 INSERT INTO d3 VALUES(null);

 CREATE TABLE d4(x COLLATE nocase);
 INSERT INTO d4 VALUES('abc');
 INSERT INTO d4 VALUES('ghi');
```

```
 INSERT INTO d4 VALUES('DEF');
 INSERT INTO d4 VALUES('JKL');
} {}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
#   The following tests verify that values of different types are sorted
#   correctly, and that mixed real and integer values are compared properly.
#
do_execsql_test e_select-8.8.1 {
 SELECT a FROM d3 ORDER BY a
} {{} 12.9 13 14.1 15 text
 xxxx}
do_execsql_test e_select-8.8.2 {
 SELECT a FROM d3 ORDER BY a DESC
} {xxxx text 15 14.1 13 12.9 {}}


# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_execsql_test e_select-8.9.1 {
 SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
 SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
#   In the test 8.10.2, the only result-column expression has no alias. So the
#   ORDER BY expression is not a reference to it and therefore does not inherit
#   the collation sequence. In test 8.10.3, "x" is the alias (as well as the
#
  column name), so the ORDER BY expression is interpreted as an alias and the
#   collation sequence attached to the result column is used for sorting.
#
do_execsql_test e_select-8.10.1 {
 SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
 SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
```

```
do_execsql_test e_select-8.10.3 {
 SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a
# column or an alias of an expression that is a column, then the default
# collation sequence for the column is used.
#
do_execsql_test e_select-8.11.1 {
 SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
 SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
do_execsql_test e_select-8.12.1 {
 SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

#
 EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
do_execsql_test e_select-8.13.0 {
 CREATE TABLE d5(a, b);
 CREATE TABLE d6(c, d);
 CREATE TABLE d7(e, f);

 INSERT INTO d5 VALUES(1, 'f');
 INSERT INTO d6 VALUES(2, 'e');
 INSERT INTO d7 VALUES(3, 'd');
 INSERT INTO d5 VALUES(4, 'c');
 INSERT INTO d6 VALUES(5, 'b');
 INSERT INTO d7 VALUES(6, 'a');

 CREATE TABLE d8(x COLLATE nocase);
 CREATE TABLE d9(y COLLATE nocase);

 INSERT INTO d8 VALUES('a');
 INSERT INTO d9 VALUES('B');
 INSERT INTO d8 VALUES('c');
```

```
 INSERT INTO d9 VALUES('D');
} {}
do_select_tests e_select-8.13 {
 1  { SELECT a FROM d5 UNION ALL SELECT
 c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY a
    } {1 2 3 4 5 6}
 2  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY c
    } {1 2 3 4 5 6}
 3  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY e
    } {1 2 3 4 5 6}
 4  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
      ORDER BY 1
    } {1 2 3 4 5 6}

 5  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
    {f 1  c 4  4 c  1 f}
 6  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
    {f 1  c 4  4 c  1 f}

 7  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
    {1 f  4 c  c 4  f 1}
 8  { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
    {1 f  4 c  c 4  f 1}

 9  { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {f 2  c 5  4 c  1 f}
 10  { SELECT a, b FROM d5 UNION ALL
 SELECT b, a+1 FROM d5 ORDER BY 2 }
    {f 2  c 5  4 c  1 f}

 11  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {2 f  5 c  c 5  f 2}
 12  { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
    {2 f  5 c  c 5  f 2}
}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
 %s ORDER BY term does not match any column in the result set
} {
 1  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 }         1st
 2  { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 }      2nd
 3  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' }  1st
```

```
 4  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah    } 1st
 5  { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d } 3rd
 6  { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b  } 4th
}

# EVIDENCE-OF:
 R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
 1  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
   {1 e   1 f   4 b   4 c}
 2  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
   {1 e   1 f   4 b   4 c}
 3  { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
   {1 e   1 f   4 b   4 c}
}


#-------------------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
do_execsql_test e_select-9.0 {
 CREATE TABLE f1(a, b);
 INSERT INTO f1 VALUES(26, 'z');
 INSERT INTO f1 VALUES(25, 'y');
 INSERT INTO f1 VALUES(24, 'x');
 INSERT INTO f1 VALUES(23, 'w');
 INSERT INTO f1 VALUES(22, 'v');
 INSERT INTO f1 VALUES(21, 'u');
 INSERT INTO f1 VALUES(20, 't');
 INSERT INTO f1 VALUES(19, 's');
 INSERT
 INTO f1 VALUES(18, 'r');
 INSERT INTO f1 VALUES(17, 'q');
 INSERT INTO f1 VALUES(16, 'p');
 INSERT INTO f1 VALUES(15, 'o');
 INSERT INTO f1 VALUES(14, 'n');
 INSERT INTO f1 VALUES(13, 'm');
 INSERT INTO f1 VALUES(12, 'l');
 INSERT INTO f1 VALUES(11, 'k');
 INSERT INTO f1 VALUES(10, 'j');
 INSERT INTO f1 VALUES(9, 'i');
 INSERT INTO f1 VALUES(8, 'h');
 INSERT INTO f1 VALUES(7, 'g');
 INSERT INTO f1 VALUES(6, 'f');
 INSERT INTO f1 VALUES(5, 'e');
```

```
 INSERT INTO f1 VALUES(4, 'd');
 INSERT INTO f1 VALUES(3, 'c');
 INSERT INTO f1 VALUES(2, 'b');
 INSERT INTO f1 VALUES(1, 'a');
} {}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.
#
do_select_tests e_select-9.1 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
 3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE
 b = 'e') }
    {a b c d e}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
 5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

do_select_tests e_select-9.2 -error "datatype mismatch" {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
 2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
 3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
 5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
#
do_select_tests e_select-9.4 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT -1 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
 2  { SELECT b FROM f1 ORDER BY a LIMIT
 length('abc')-100 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
 3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 }
    {a b c d e f g h i j k l m n o p q r s t u v w x y z}
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N
```

```
# rows of its result set only, where N is the value that the LIMIT
# expression evaluates to.
#
do_select_tests e_select-9.5 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
 2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
 3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
 4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#
do_select_tests e_select-9.6 {
 1  { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
 2  { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10
 } {2 4 5 5 5 5}
}


# EVIDENCE-OF: R-24188-24349 The expression attached to the optional
# OFFSET clause that may follow a LIMIT clause must also evaluate to an
# integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
 3  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
 4  { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
 5  { SELECT b FROM f1 ORDER BY a
     LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
 }
} {
 do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}
}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
#
do_select_tests e_select-9.8 {
 1  { SELECT
 b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
 3  { SELECT b FROM f1 ORDER BY a
```

```
    LIMIT  (SELECT a FROM f1 WHERE b='j')
    OFFSET (SELECT a FROM f1 WHERE b='b')
   } {c d e f g h i j k l}
 4  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
 5  { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
 6  { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
 7  { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
#
do_select_tests e_select-9.9 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
 2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}



# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a
# negative
 value, the results are the same as if it had evaluated to
# zero.
#
do_select_tests e_select-9.10 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
 3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0  } {a b c d e}
}

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the
# LIMIT clause may specify two scalar expressions separated by a comma.
#
# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used
# as the OFFSET expression and the second as the LIMIT expression.
#
do_select_tests e_select-9.11 {
 1  { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
 2  { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
 3  { SELECT b FROM f1 ORDER BY a
    LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j')
   } {c d e f g h i j k l}
 4  { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
 5  { SELECT b FROM f1 ORDER
 BY a LIMIT 0, '5' } {a b c d e}
 6  { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
 7  { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
```

```
 8  { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
 9  { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}

 10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
 11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
 12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}

finish_test
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/requirements.html
No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/34to35.html
No license file was found, but licenses were detected in source scan.

public domain.

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/changes.html
No license file was found, but licenses were detected in source scan.

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%Version
No license file was found, but licenses were detected in source scan.

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):

* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/custombuild.html
No license file was found, but licenses were detected in source scan.

<p>SQLite itself is in the public domain and
can be used for any purpose. But TH3 is proprietary and requires a license.

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/th3.html
No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/art/sqlite370.eps
No license file was found, but licenses were detected in source scan.

```
# 2006 October 1
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
 finish_test
 return
}

# Test data for the Porter stemmer.  The first word of each line
```

```
# is the input.  The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
#
 There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind.  The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
  a                 a
  aaron             aaron
  abaissiez          abaissiez
  abandon            abandon
  abandoned           abandon
  abase             abas
  abash             abash
  abate             abat
  abated             abat
  abatement           abat
  abatements          abat
  abates            abat
  abbess             abbess
  abbey             abbei
  abbeys             abbei
  abbominable         abbomin
  abbot             abbot
  abbots             abbot
  abbreviated
   abbrevi
  abed              ab
  abel              abel
  aberga             aberga
  abergavenny         abergavenni
  abet              abet
  abetting           abet
  abhominable         abhomin
  abhor             abhor
  abhorr             abhorr
  abhorred           abhor
  abhorring          abhor
  abhors             abhor
  abhorson           abhorson
  abide             abid
  abides             abid
  abilities          abil
```

ability abil
abject abject
abjectly abjectli
abjects abject
abjur abjur
abjure abjur
able abl
abler abler
aboard aboard
abode abod
aboded abod
abodements abod
aboding abod
abominable abomin
abominably abomin
abominations
abomin
abortive abort
abortives abort
abound abound
abounding abound
about about
above abov
abr abr
abraham abraham
abram abram
abreast abreast
abridg abridg
abridge abridg
abridged abridg
abridgment abridg
abroach abroach
abroad abroad
abrogate abrog
abrook abrook
abrupt abrupt
abruption abrupt
abruptly abruptli
absence absenc
absent absent
absey absei
absolute absolut
absolutely absolut
absolv absolv
absolver absolv
abstains abstain
abstemious abstemi
abstinence abstin

abstract	abstract
absurd	absurd
absyrtus	absyrtu
abundance	abund
abundant	abund
abundantly	abundantli
abus	abu
abuse	abus
abused	abus
abuser	abus
abuses	abus
abusing	abus
abutting	abut
aby	abi
abysm	abysm
ac	ac
academe	academ
academes	academ
accent	accent
accents	accent
accept	accept
acceptable	accept
acceptance	accept
accepted	accept
accepts	accept
access	access
accessary	accessari
accessible	access
accidence	accid
accident	accid
accidental	accident
accidentally	accident
accidents	accid
accite	accit
accited	accit
accites	accit
acclamations	acclam
accommodate	accommod
accommodated	accommod
accommodation	accommod
accommodations	accommod
accommodo	accommodo
accompanied	accompani
accompany	accompani
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backing	back
backs	back
backward	backward
backwardly	backwardli
backwards	backward
bacon	bacon
bacons	bacon
bad	bad
bade	bade
badge	badg
badged	badg
badges	badg
badly	badli
badness	bad
baes	bae
baffl	baffl
baffle	baffl
baffled	baffl
bag	bag
baggage	baggag
bagot	bagot
bagpipe	bagpip
bags	bag

bail	bail
bailiff	bailiff
baillez	baillez
baily	baili
baisant	baisant
baisees	baise
baiser	baiser
bait	bait
baited	bait
baiting	bait
baitings	bait
baits	bait
bajazet	bajazet
bak	bak
bake	bake
baked	bake
baker	baker
bakers	baker
bakes	bake
baking	bake
bal	bal
balanc	balanc
balance	balanc
balcony	balconi
bald	bald
baldrick	baldrick
bale	bale
baleful	bale
balk	balk
ball	ball
ballad	ballad
ballads	ballad
ballast	ballast
ballasting	ballast
ballet	ballet
ballow	ballow
balls	ball
balm	balm
balms	balm
balmy	balmi
balsam	balsam
balsamum	balsamum
balth	balth
balthasar	balthasar
balthazar	balthazar
bames	bame
ban	ban

banbury	banburi
band	band
bandied	bandi
banding	band
bandit	bandit
banditti	banditti
banditto	banditto
bands	band
bandy	bandi
bandying	bandi
bane	bane
banes	bane
bang	bang
bangor	bangor
banish	banish
banished	banish
banishers	banish
banishment	banish
banister	banist
bank	bank
bankrout	bankrout
bankrupt	bankrupt
bankrupts	bankrupt
banks	bank
banner	banner
bannerets	banneret
banners	banner
banning	ban
banns	bann
banquet	banquet
banqueted	banquet
banqueting	banquet
banquets	banquet
banquo	banquo
bans	ban
baptism	baptism
baptista	baptista
baptiz	baptiz
bar	bar
barbarian	barbarian
barbarians	barbarian
barbarism	barbar
barbarous	barbar
barbary	barbari
barbason	barbason
barbed	barb
barber	barber
barbermonger	barbermong

bard bard
bardolph bardolph
bards bard
bare bare
bared bare
barefac barefac
barefaced barefac
barefoot barefoot
bareheaded barehead
barely bare
bareness bare
barful bar
bargain bargain
bargains bargain
barge barg
bargulus bargulu
baring bare
bark bark
barking bark
barkloughly barkloughli
barks bark
barky barki
barley barlei
barm barm
barn barn
barnacles barnacl
barnardine barnardin
barne barn
barnes barn
barnet barnet
barns barn
baron baron
barons baron
barony baroni
barr barr
barrabas barraba
barrel
barrel
barrels barrel
barren barren
barrenly barrenli
barrenness barren
barricado barricado
barricadoes barricado
barrow barrow
bars bar
barson barson
barter barter

bartholomew bartholomew
bas ba
basan basan
base base
baseless baseless
basely base
baseness base
baser baser
bases base
basest basest
bashful bash
bashfulness bash
basilisco basilisco
basilisk basilisk
basilisks basilisk
basimecu basimecu
basin basin
basingstoke basingstok
basins basin
basis basi
bask
bask
basket basket
baskets basket
bass bass
bassanio bassanio
basset basset
bassianus bassianu
basta basta
bastard bastard
bastardizing bastard
bastardly bastardli
bastards bastard
bastardy bastardi
basted bast
bastes bast
bastinado bastinado
basting bast
bat bat
batailles batail
batch batch
bate bate
bated bate
bates bate
bath bath
bathe bath
bathed bath
bathing bath

baths	bath
bating	bate
batler	batler
bats	bat
batt	batt
battalia	battalia
battalions	battalion
batten	batten
batter	batter
battering	batter
batters	batter
battery	batteri
battle	battl
battled	battl
battlefield	battlefield
battlements	battlement
battles	battl
batty	batti
bauble	baubl
baubles	baubl
baubling	baubl
baulk	baulk
bavin	bavin
bawcock	bawcock
bawd	bawd
bawdry	bawdri
bawds	bawd
bawdy	bawdi
bawl	bawl
bawling	bawl
bay	bai
baying	bai
baynard	baynard
bayonne	bayonn
bays	bai
be	be
beach	beach
beached	beach
beachy	beachi
beacon	beacon
bead	bead
beaded	bead
beadle	beadl
beadles	beadl
beads	bead
beadsmen	beadsmen

beagle	beagl
beagles	beagl
beak	beak
beaks	beak
beam	beam
beamed	beam
beams	beam
bean	bean
beans	bean
bear	bear
beard	beard
bearded	beard
beardless	beardless
beards	beard
bearer	bearer
bearers	bearer
bearest	bearest
beareth	beareth
bearing	bear
bears	bear
beast	beast
beastliest	beastliest
beastliness	beastli
beastly	beastli
beasts	beast
beat	beat
beated	beat
beaten	beaten
beating	beat
beatrice	beatric
beats	beat
beau	beau
beaufort	beaufort
beaumond	beaumond
beaumont	beaumont
beauteous	beauteou
beautied	beauti
beauties	beauti
beautified	beautifi
beautiful	beauti
beautify	beautifi
beauty	beauti
beaver	beaver
beavers	beaver
became	becam
because	becaus
bechanc	bechanc

bechance bechanc
bechanced bechanc
beck beck
beckon beckon
beckons beckon
becks beck
becom becom
become
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becomed becom
becomes becom
becoming becom
becomings becom
bed bed
bedabbled bedabbl
bedash bedash
bedaub bedaub
bedazzled bedazzl
bedchamber bedchamb
bedclothes bedcloth
bedded bed
bedeck bedeck
bedecking bedeck
bedew bedew
bedfellow bedfellow
bedfellows bedfellow
bedford bedford
bedlam bedlam
bedrench bedrench
bedrid bedrid
beds bed
bedtime bedtim
bedward bedward
bee bee
beef beef
beefs beef
beehives beehiv
been been
beer beer
bees bee
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beetle beetl
beetles beetl
beeves beev
befall befal
befallen befallen
befalls befal

befell	befel
befits	befit
befitted	befit
befitting	befit
befor	befor
before	befor
beforehand	beforehand
befortune	befortun
befriend	befriend
befriended	befriend
befriends	befriend
beg	beg
began	began
beget	beget
begets	beget
begetting	beget
begg	begg
beggar	beggar
beggared	beggar
beggarly	beggarli
beggarman	beggarman
beggars	beggar
beggary	beggari
begging	beg
begin	
begin	
beginners	beginn
beginning	begin
beginnings	begin
begins	begin
begnawn	begnawn
begone	begon
begot	begot
begotten	begotten
begrimed	begrim
begs	beg
beguil	beguil
beguile	beguil
beguiled	beguil
beguiles	beguil
beguiling	beguil
begun	begun
behalf	behalf
behalfs	behalf
behav	behav
behaved	behav
behavedst	behavedst
behavior	behavior

behaviors	behavior
behaviour	behaviour
behaviours	behaviour
behead	behead
beheaded	behead
beheld	beheld
behest	behest
behests	behest
behind	behind
behold	behold
beholder	behold
beholders	behold
beholdest	beholdest
beholding	behold
beholds	behold
behoof	behoof
behooffull	behoofful
behooves	behoov
behove	behov
behoves	behov
behowls	behowl
being	be
bel	bel
belarius	belariu
belch	belch
belching	belch
beldam	beldam
beldame	beldam
beldams	beldam
belee	bele
belgia	belgia
belie	beli
belied	beli
belief	belief
beliest	beliest
believ	believ
believe	believ
believed	believ
believes	believ
believest	believest
believing	believ
belike	belik
bell	bell
bellario	bellario
belle	bell
bellied	belli
bellies	belli

bellman	bellman
bellona	bellona
bellow	bellow
bellowed	bellow
bellowing	bellow
bellows	bellow
bells	bell
belly	belli
bellyful	belly
belman	belman
belmont	belmont
belock	belock
belong	belong
belonging	belong
belongings	belong
belongs	belong
belov	belov
beloved	belov
beloving	belov
below	below
belt	belt
belzebub	belzebub
bemadding	bemad
bemet	bemet
bemete	bemet
bemoan	bemoan
bemoaned	bemoan
bemock	bemock
bemoil	bemoil
bemonster	bemonst
ben	ben
bench	bench
bencher	bencher
benches	bench
bend	bend
bended	bend
bending	bend
bends	bend
bene	bene
beneath	beneath
benedicite	benedicit
benedick	benedick
benediction	benedict
benedictus	benedictu
benefactors	benefactor
benefice	benefic
beneficial	benefici
benefit	benefit

benefited benefit
benefits benefit
benetted benet
benevolence benevol
benevolences benevol
benied beni
benison benison
bennet bennet
bent bent
bentii bentii
bentivolii bentivolii
bents bent
benumbed benumb
benvolio benvolio
bepaint bepaint
bepray beprai
bequeath bequeath
bequeathed bequeath
bequeathing bequeath
bequest bequest
ber ber
berard berard
berattle berattl
beray berai
bere bere
bereave bereav
bereaved bereav
bereaves bereav
bereft bereft
bergamo bergamo
bergomask bergomask
berhym berhym
berhyme berhym
berkeley berkelei
bermoothes bermooth
bernardo bernardo
berod berod
berowne berown
berri
berri
berries berri
berrord berrord
berry berri
bertram bertram
berwick berwick
bescreen bescreen
beseech beseech
beseeched beseech

beseechers	beseech
beseeching	beseech
beseek	beseek
beseem	beseem
beseemeth	beseemeth
beseeming	beseem
beseems	beseem
beset	beset
beshrew	beshrew
beside	besid
besides	besid
besieg	besieg
besiege	besieg
besieged	besieg
beslubber	beslubb
besmear	besmear
besmeared	besmear
besmirch	besmirch
besom	besom
besort	besort
besotted	besot
bespake	bespak
bespeak	
bespeak	
bespice	bespic
bespoke	bespok
bespotted	bespot
bess	bess
bessy	bessi
best	best
bestained	bestain
bested	best
bestial	bestial
bestir	bestir
bestirr	bestirr
bestow	bestow
bestowed	bestow
bestowing	bestow
bestows	bestow
bestraught	bestraught
bestrew	bestrew
bestrid	bestrid
bestride	bestrid
bestrides	bestrid
bet	bet
betake	betak
beteem	beteem
bethink	bethink

bethought	bethought
bethrothed	bethroth
bethump	bethump
betid	betid
betide	betid
betideth	betideth
betime	
betim	
betimes	betim
betoken	betoken
betook	betook
betossed	betoss
betray	betrai
betrayed	betrai
betraying	betrai
betrays	betrai
betrims	betrim
betroth	betroth
betrothed	betroth
betroths	betroth
bett	bett
betted	bet
better	better
bettered	better
bettering	better
betters	better
betting	bet
bettre	bettr
between	between
betwixt	betwixt
bevel	bevel
beverage	beverag
bevis	bevi
bevy	bevi
bewail	bewail
bewailed	bewail
bewailing	bewail
bewails	bewail
beware	bewar
bewasted	bewast
beweep	beweep
bewept	bewept
bewet	bewet
bewhored	bewhor
bewitch	bewitch
bewitched	bewitch
bewitchment	bewitch

bewray	bewrai
beyond	beyond
bezonian	bezonian
bezonians	bezonian
bianca	bianca
bianco	bianco
bias	bia
bibble	bibbl
bickerings	bicker
bid	bid
bidden	bidden
bidding	bid
biddings	bid
biddy	biddi
bide	bide
bides	bide
biding	bide
bids	bid
bien	bien
bier	bier
bifold	bifold
big	big
bigamy	bigami
biggen	biggen
bigger	bigger
bigness	big
bigot	bigot
bilberry	bilberri
bilbo	bilbo
bilboes	bilbo
bilbow	bilbow
bill	bill
billeted	billet
billets	billet
billiards	billiard
billing	bill
billow	billow
billows	billow
bills	bill
bin	bin
bind	bind
bindeth	bindeth
binding	bind
binds	bind
biondello	biondello
birch	birch
bird	bird

birding	bird
birdlime	birdlim
birds	bird
birnam	birnam
birth	birth
birthday	birthdai
birthdom	birthdom
birthplace	birthplac
birthright	birthright
birthrights	birthright
births	birth
bis	bi
biscuit	biscuit
bishop	bishop
bishops	bishop
bisson	bisson
bit	bit
bitch	bitch
bite	bite
biter	biter
bites	bite
biting	bite
bits	bit
bitt	bitt
bitten	bitten
bitter	bitter
bitterest	bitterest
bitterly	bitterli
bitterness	bitter
blab	blab
blabb	blabb
blabbing	blab
blabs	blab
black	black
blackamoor	blackamoor
blackamoors	blackamoor
blackberries	blackberri
blackberry	blackberri
blacker	blacker
blackest	blackest
blackfriars	blackfriar
blackheath	blackheath
blackmere	blackmer
blackness	black
blacks	black
bladder	bladder
bladders	bladder

blade	blade
bladed	blade
blades	blade
blains	blain
blam	blam
blame	blame
blamed	blame
blameful	blame
blameless	blameless
blames	blame
blanc	blanc
blanca	blanca
blanch	blanch
blank	blank
blanket	blanket
blanks	blank
blaspheme	blasphem
blaspheming	blasphem
blasphemous	blasphem
blasphemy	blasphemi
blast	blast
blasted	blast
blasting	blast
blastments	blastment
blasts	blast
blaz	blaz
blaze	blaze
blazes	blaze
blazing	blaze
blazon	blazon
blazoned	blazon
blazoning	blazon
bleach	bleach
bleaching	bleach
bleak	bleak
blear	blear
bleared	blear
bleat	bleat
bleated	bleat
bleats	bleat
bled	bled
bleed	bleed
bleedest	bleedest
bleedeth	bleedeth
bleeding	bleed
bleeds	bleed
blemish	blemish
blemishes	blemish

blench	blench
blenches	blench
blend	blend
blended	blend
blent	blent
bless	bless
blessed	bless
blessedly	
blessedli	
blessedness	blessed
blesses	bless
blesseth	blesseth
blessing	bless
blessings	bless
blest	blest
blew	blew
blind	blind
blinded	blind
blindfold	blindfold
blinding	blind
blindly	blindli
blindness	blind
blinds	blind
blink	blink
blinking	blink
bliss	bliss
blist	blist
blister	blister
blisters	blister
blithe	blith
blithild	blithild
bloat	bloat
block	block
blockish	blockish
blocks	block
blois	bloi
blood	blood
blooded	blood
bloodhound	bloodhound
bloodied	bloodi
bloodier	bloodier
bloodiest	bloodiest
bloodily	bloodili
bloodless	bloodless
bloods	blood
bloodshed	bloodsh
bloodshedding	bloodshed

bloodstained	bloodstain
bloody	bloodi
bloom	bloom
blooms	bloom
blossom	blossom
blossoming	blossom
blossoms	blossom
blot	blot
blots	blot
blotted	blot
blotting	blot
blount	blount
blow	blow
blowed	blow
blowers	blower
blowest	blowest
blowing	blow
blown	blown
blows	blow
blowse	blows
blubb	blubb
blubber	blubber
blubbering	blubber
blue	blue
bluecaps	bluecap
bluest	bluest
blunt	blunt
blunted	blunt
blunter	blunter
bluntest	bluntest
blunting	blunt
bluntly	bluntli
bluntness	blunt
blunts	blunt
blur	blur
blurr	blurr
blurs	blur
blush	blush
blushes	blush
blushest	blushest
blushing	blush
blust	blust
bluster	bluster
blusterer	bluster
blusters	bluster
bo	bo
boar	boar

board board
boarded board
boarding board
boards board
boarish boarish
boars boar
boast boast
boasted boast
boastful boast
boasting boast
boasts boast
boat boat
boats boat
boatswain boatswain
bob bob
bobb bobb
boblibindo boblibindo
bobtail bobtail
bocchus bocchu
bode bode
boded bode
bodements bodement
bodes bode
bodg bodg
bodied bodi
bodies bodi
bodiless bodiless
bodily bodili
boding bode
bodkin bodkin
body bodi
bodykins bodykin
bog bog
boggle boggl
boggler boggler
bogs bog
bohemia bohemia
bohemian bohemian
bohun bohun
boil boil
boiling boil
boils boil
boist boist
boisterous boister
boisterously boister
boitier boitier

bold	bold
bolden	bolden
bolder	bolder
boldest	boldest
boldly	boldli
boldness	bold
bolds	bold
bolingbroke	bolingbrok
bolster	bolster
bolt	bolt
bolted	bolt
bolter	bolter
bolters	bolter
bolting	bolt
bolts	bolt
bombard	bombard
bombards	bombard
bombast	bombast
bon	bon
bona	bona
bond	bond
bondage	bondag
bonded	bond
bondmaid	bondmaid
bondman	bondman
bondmen	bondmen
bonds	bond
bondslave	bondslav
bone	bone
boneless	boneless
bones	bone
bonfire	bonfir
bonfires	bonfir
bonjour	bonjour
bonne	bonn
bonnet	bonnet
bonneted	bonnet
bonny	bonni
bonos	bono
bonto	bonto
bonville	bonvil
bood	bood
book	book
bookish	bookish
books	book
boon	boon
boor	boor

boorish boorish
boors boor
boot boot
booted boot
booties booti
bootless bootless
boots boot
booty booti
bor bor
bora bora
borachio borachio
bordeaux
bordeaux
border border
bordered border
borderers border
borders border
bore bore
boreas borea
bores bore
boring bore
born born
borne born
borough borough
boroughs borough
borrow borrow
borrowed borrow
borrower borrow
borrowing borrow
borrows borrow
bosko bosko
boskos bosko
bosky boski
bosom bosom
bosoms bosom
boson boson
boss boss
bosworth bosworth
botch botch
botcher botcher
botches botch
botchy botchi
both both
bots bot
bottle
bottl
bottled bottl
bottles bottl

bottom	bottom
bottomless	bottomless
bottoms	bottom
bouciqualt	bouciqualt
bouge	boug
bough	bough
boughs	bough
bought	bought
bounce	bounc
bouncing	bounc
bound	bound
bounded	bound
bounden	bounden
boundeth	boundeth
bounding	bound
boundless	boundless
bounds	bound
bounteous	bounteou
bounteously	bounteous
bounties	bounti
bountiful	bounti
bountifully	bountifulli
bounty	bounti
bourbier	bourbier
bourbon	bourbon
bourchier	bourchier
bourdeaux	bourdeaux
bourn	bourn
bout	bout
bouts	bout
bove	bove
bow	bow
bowcase	bowcas
bowed	bow
bowels	bowel
bower	bower
bowing	bow
bowl	bowl
bowler	bowler
bowling	bowl
bowls	bowl
bows	bow
bowsprit	bowsprit
bowstring	bowstr
box	box
boxes	box
boy	boi

boyet boyet
boyish boyish
boys boi
brabant brabant
brabantio brabantio
brabble brabbl
brabbler brabbler
brac brac
brace brace
bracelet bracelet
bracelets bracelet
brach brach
bracy braci
brag
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bragg bragg
braggardism braggard
braggards braggard
braggart braggart
braggarts braggart
bragged brag
bragging brag
bragless bragless
brags brag
braid braid
braided braid
brain brain
brained brain
brainford brainford
brainish brainish
brainless brainless
brains brain
brainsick brainsick
brainsickly brainsickli
brake brake
brakenbury brakenburi
brakes brake
brambles brambl
bran bran
branch branch
branches branch
branchless branchless
brand brand
branded brand
brandish brandish
brandon
brandon
brands brand

bras	bra
brass	brass
brassy	brassi
brat	brat
brats	brat
brav	brav
brave	brave
braved	brave
bravely	brave
braver	braver
bravery	braveri
braves	brave
bravest	bravest
braving	brave
brawl	brawl
brawler	brawler
brawling	brawl
brawls	brawl
brawn	brawn
brawns	brawn
bray	brai
braying	brai
braz	braz
brazen	brazen
brazier	brazier
breach	breach
breaches	breach
bread	bread
breadth	breadth
break	break
breaker	breaker
breakfast	breakfast
breaking	break
breaks	break
breast	breast
breasted	breast
breasting	breast
breastplate	breastplat
breasts	breast
breath	breath
breathe	breath
breathed	breath
breather	breather
breathers	breather
breathes	breath
breathest	breathest
breathing	breath

breathless	breathless
breaths	breath
brecknock	brecknock
bred	bred
breech	breech
breeches	breech
breeching	breech
breed	breed
breeder	breeder
breeders	breeder
breeding	breed
breeds	breed
breese	brees
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bretagne	bretagn
brethen	brethen
bretheren	bretheren
brethren	brethren
brevis	brevi
brevity	breviti
brew	brew
brewage	brewag
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brewing	brew
brews	brew
briareus	briareu
briars	briar
brib	brib
bribe	bribe
briber	briber
bribes	bribe
brick	brick
bricklayer	bricklay
bricks	brick
bridal	bridal
bride	bride
bridegroom	bridegroom
bridegrooms	bridegroom
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bridge	bridg
bridgenorth	bridgenorth
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briefest	briefest
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brim	brim
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bullet	bullet
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bullocks	bullock
bulls	bull
bully	bulli
bulmer	bulmer
bulwark	bulwark
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bum	bum
bumbast	bumbast
bump	bump
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bunch	bunch
bunches	bunch
bundle	bundl
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bungle	bungl
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bur	bur
burbolt	burbolt
burd	burd
burden	burden
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burdening	burden
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burgh	burgh
burgher	burgher
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burglary	burglari
burgomasters	burgomast
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burgundy	burgundi
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busky	buski
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buttery	butteri
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button	button
buttonhole	buttonhol
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buttress	buttress
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buxom	buxom
buy	bui
buyer	buyer
buying	bui
buys	bui
buzz	buzz
buzzard	buzzard
buzzards	buzzard
buzzers	buzzer
buzzing	buzz
by	by
bye	bye
byzantium	byzantium
c	c
ca	ca
cabbage	cabbag
cabileros	cabilero
cabin	cabin
cabins	cabin
cable	cabl
cables	cabl
cackling	cackl
cacodemon	cacodemon
caddis	caddi
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cadmus	cadmu
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can	can
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canaries	canari
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cancels	cancel
cancer	cancer
candidatus	candidatu
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candle	candl
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candlesticks	candlestick
candy	candi
canidius	canidiu
cank	cank
canker	canker
cankerblossom	cankerblossom
cankers	canker
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cappadocia	cappadocia
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capt	capt
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captains	captain
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caskets	casket
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castalion	castalion
castaway	castawai
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caster	caster
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casual	casual
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casualties	casualti
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cat	cat
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catalogue	catalogu
cataplasm	cataplasm
cataracts	cataract
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catastrophe	catastroph
catch	catch
catcher	catcher
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cate	cate
catechising	catechis
catechism	catech
catechize	catech
cater	cater
caterpillars	caterpillar
caters	cater
caterwauling	caterwaul
cates	cate
catesby	catesbi
cathedral	cathedr
catlike	catlik
catling	catl
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cats	cat
cattle	cattl
caucasus	caucasu
caudle	caudl
cauf	cauf
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cauldron	cauldron
caus	cau
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causeless	causeless
causer	causer
causes	caus
causest	causest
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cautel	cautel
cautelous	cautel
cautels	cautel
cauterizing	cauter
caution	caution
cautions	caution
cavaleiro	cavaleiro
cavalery	cavaleri
cavaliers	cavali
cave	cave
cavern	cavern
caverns	cavern

caves cave
caveto caveto
caviary caviari
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cavilling cavil
cawdor cawdor
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cerecloth cerecloth

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chapel	chapel
chapeless	chapeless
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chaplain	chaplain
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chapless	chapless
chaplet	chaplet
chapmen	chapmen
chaps	chap
chapter	chapter
character	charact
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characters	charact
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chariest	chariest
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charing	chare
chariot	chariot
chariots	chariot
charitable	charit
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charlemain	charlemain
charles	charl
charm	charm
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charmer	charmer
charmeth	charmeth
charmian	charmian
charming	charm
charmingly	charmingli
charms	charm
charneco	charneco

charnel	charnel
charolois	charoloi
charon	charon
charter	charter
charters	charter
chartreux	chartreux
chary	chari
charybdis	charybdi
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chatham	chatham
chatillon	chatillon
chats	chat
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chattels	chattel
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chattering	chatter
chattles	chattl
chaud	chaud
chaunted	chaunt
chaw	chaw
chawdron	chawdron
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cheerfully	cheerfulli
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chestnut	chestnut
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chetas	cheta
chev	chev
cheval	cheval
chevalier	chevali
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cheveril	cheveril
chew	chew
chewed	chew
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chez chez
chi chi
chick chick
chicken chicken
chickens chicken
chicurmurco chicurmurco
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child child
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chips chip
chiron chiron

chirping chirp
chirrah chirrah
chirurgeonly chirurgeonli
chisel chisel
chitopher chitoph
chivalrous chivalr
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choir choir
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chok chok
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choler choler
choleric choler
cholers choler
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choose choos
chooser chooser
chooses choos
chooseth chooseth
choosing choos
chop chop
chopine chopin
choplogic choplog
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choristers chorist
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chough chough
choughs chough
chrish chrish
christ christ
christen christen
christendom christendom
christendoms christendom

christening	christen
christenings	christen
christian	christian
christianlike	christianlik
christians	christian
christmas	christma
christom	christom
christopher	christoph
christophero	christophero
chronicle	chronicl
chronicled	chronicl
chronicler	chronicl
chroniclers	chronicl
chronicles	chronicl
chrysolite	chrysolit
chuck	chuck
chucks	chuck
chud	chud
chuffs	chuff
church	church
churches	church
churchman	churchman
churchmen	churchmen
churchyard	churchyard
churchyards	churchyard
churl	churl
churlish	churlish
churlishly	churlishli
churls	churl
churn	churn
chus	chu
cicatrice	cicatric
cicatrices	cicatric
cicely	cice
cicero	cicero
ciceter	cicet
ciel	ciel
ciitzens	ciitzen
cilicia	cilicia
cimber	cimber
cimmerian	cimmerian
cinable	cinabl
cincture	cinctur
cinders	cinder
cine	cine
cinna	cinna

cinque	cinqu
cipher	cipher
ciphers	cipher
circa	circa
circe	circ
circle	circl
circled	circl
circlets	circlet
circling	circl
circuit	circuit
circum	circum
circumcised	circumcis
circumference	circumfer
circummur	circummur
circumscrib	circumscrib
circumscribed	circumscrib
circumscription	circumscript
circumspect	circumspect
circumstance	circumst
circumstanced	circumstanc
circumstances	circumst
circumstantial	circumstanti
circumvent	circumv
circumvention	circumvent
cistern	cistern
citadel	citadel
cital	cital
cite	cite
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cities	citi
citing	cite
citizen	citizen
citizens	citizen
cittern	cittern
city	citi
civet	civet
civil	civil
civility	civil
civilly	civilli
clack	clack
clad	clad
claim	claim
claiming	claim
claims	claim
clamb	clamb
clamber	clamber

clammer	clammer
clamor	clamor
clamorous	clamor
clamors	clamor
clamour	clamour
clamours	clamour
clang	clang
clangor	clangor
clap	clap
clapp	clapp
clapped	clap
clapper	clapper
clapping	clap
claps	clap
clare	clare
clarence	clarenc
claret	claret
claribel	claribel
clasp	clasp
clasps	clasp
clatter	clatter
claud	claud
claudio	claudio
claudius	claudiu
clause	claus
claw	claw
clawed	claw
clawing	claw
claws	claw
clay	clai
clays	clai
clean	clean
cleanliest	cleanliest
cleanly	cleanli
cleans	clean
cleanse	cleans
cleansing	cleans
clear	clear
clearer	clearer
clearest	clearest
clearly	clearli
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clew clew
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divinity	divin
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freeman	freeman
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frenchmen	frenchmen
frenchwoman	frenchwoman
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frequent	frequent
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fresh	fresh
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freshly	freshli
freshness	fresh

fret	fret
fretful	fret
frets	fret
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fretting	fret
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friday	fridai
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friended	friend
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friendless	friendless
friendliness	friendli
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frieze	friez
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frightful	fright
frighting	fright
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frippery	fripperi
frisk	frisk
fritters	fritter
frivolous	frivol
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frog	frog
frogmore	frogmor
froissart	froissart
frolic	frolic
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front	front
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frontlet	frontlet
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frost	frost
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frosty	frosti
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froward	froward
frown	frown
frowning	frown
frowningly	frowningli
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fructify	fructifi
frugal	frugal
fruit	fruit
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fruitful	fruit
fruitfully	fruitfulli
fruitfulness	fruit
fruition	fruition
fruitless	fruitless
fruits	fruit
frush	frush
frustrate	frustrat
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fubb	fubb
fuel	fuel
fugitive	fugit
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glowworm glowworm
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goads	goad
goal	goal
goat	goat
goatish	goatish
goats	goat
gobbets	gobbet
gobbo	gobbo
goblet	goblet
goblets	goblet
goblin	goblin
goblins	goblin
god	god
godded	god
godden	godden
goddess	goddess
goddesses	goddess
goddild	goddild
godfather	godfath
godfathers	godfath
godhead	godhead
godlike	godlik
godliness	godli
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godmother	godmoth
gods	god
godson	godson
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goffe	goff
gogs	gog
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gold	gold
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goldsmith goldsmith
goldsmiths goldsmith
golgotha golgotha
goliases golias
goliath goliath
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gondolier gondoli
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gonzago gonzago
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gosling	gosl
gospel	gospel
gospels	gospel
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gossamer	gossam
gossip	gossip
gossiping	gossip
gossiplike	gossiplik
gossips	gossip
got	got
goth	goth
goths	goth
gotten	gotten
gourd	gourd
gout	gout
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gouty	gouti
govern	govern
governance	govern
governed	govern
governess	gover
government	govern
governor	governor
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governs	govern
gower	gower
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graced	grace
graceful	grace
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graceless	graceless
graces	grace
gracing	grace
gracious	graciou
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gradation	gradat
graff	graff
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graft	graft
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grafters	grafter
grain	grain
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grains grain
gramercies gramerci
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grammar grammar
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grandfather grandfath
grandjurors grandjuror
grandmother grandmoth
grandpre grandpr
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gravediggers	gravedigg
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graver	graver
graves	grave
gravest	gravest
gravestone	graveston
gravities	graviti
gravity	graviti
gravy	gravi
gray	grai
graymalkin	graymalkin
graz	graz
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grazing	graze
grease	greas
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greasily	greasili
greasy	greasi
great	great
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greatness	great
grecian	grecian
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gree	gree
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greekish	greekish
greeks	greek
green	green
greener	greener
greenly	greenli
greens	green
greensleeves	greensleev

greenwich	greenwich
greenwood	greenwood
greet	greet
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greg	greg
gregory	gregori
gremio	gremio
grew	grew
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greybeard	greybeard
greybeards	greybeard
greyhound	greyhound
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grief	grief
griefs	grief
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grievous	grievou
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griffin	griffin
griffith	griffith
grim	grim
grime	grime
grimly	grimli
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grindstone	grindston
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grip	grip
gripe	gripe
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grise	grise
grisly	grisli
grissel	grissel
grize	grize
grizzle	grizzl

grizzled	grizzl
groan	groan
groaning	groan
groans	groan
groat	groat
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groom	groom
grooms	groom
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gros	gro
gross	gross
grosser	grosser
grossly	grossli
grossness	gross
ground	ground
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groundlings	groundl
grounds	ground
grove	grove
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grovelling	grovel
groves	grove
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groweth	groweth
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grows	grow
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grub	grub
grubb	grubb
grubs	grub
grudge	grudg
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gruel	gruel
grumble	grumbl
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grund	grund
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gualtier	gualtier
guard	guard
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hail	hail
hailed	hail
hailstone	hailston
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hair	hair
hairless	hairless
hairs	hair
hairy	hairi
hal	hal
halberd	halberd
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halcyon	halcyon
hale	hale
haled	hale
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half	half
halfcan	halfcan
halfpence	halfpenc
halfpenny	halfpenni
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halfway	halfwai
halidom	halidom
hall	hall
halloa	halloa
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hallow	hallow
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hardocks	hardock
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hare	hare
harelip	harelip
hares	hare
harfleur	harfleur
hark	hark
harlot	harlot
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harlots	harlot
harm	harm
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harmonious	harmoni
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hears	hear
hearsay	hearsai
hearse	hears
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heartache	heartach
heartbreak	heartbreak
heartbreaking	heartbreak
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heating	heat
heats	heat
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jade jade
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jail jail
jakes jake
jamany jamani
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january	januari
janus	janu
japhet	japhet
jaquenetta	jaquenetta
jaques	jaqu
jar	jar
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jasons	jason
jaunce	jaunc
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jaundice	jaundic
jaundies	jaundi
jaw	jaw
jawbone	jawbon
jaws	jaw
jay	jai
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jc	jc
je	je
jealous	jealou
jealousies	jealousi
jealousy	jealousi
jeer	jeer
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jelly	jelli
jenny	jenni
jeopardy	jeopardi
jephtha	jephtha
jephthah	jephthah
jerkin	jerkin
jerkins	jerkin
jerks	jerk
jeronimy	jeronimi
jerusalem	jerusalem
jeshu	jeshu
jesses	jess
jessica	jessica
jest	jest
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jet	jet
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jew	jew
jewel	jewel
jeweller	jewel
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jewry	jewri
jews	jew
jezebel	jezebel
jig	jig
jigging	jig
jill	jill
jills	jill
jingling	jingl
joan	joan
job	job
jockey	jockei
jocund	jocund
jog	jog
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john	john
johns	john
join	join
joinder	joinder
joined	join
joiner	joiner
joineth	joineth
joins	join
joint	joint
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jointing	joint
jointly	jointli
jointress	jointress
joints	joint
jointure	jointur
jollity	jolliti
jolly	jolli
jolt	jolt
joltheads	jolthead
jordan	jordan
joseph	joseph
joshua	joshua
jot	jot
jour	jour

jourdain jourdain
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jumping jump
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june june
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junior junior
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katherine	katherin
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keech	keech
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keep	keep
keepdown	keepdown
keeper	keeper
keepers	keeper
keepest	keepest
keeping	keep
keeps	keep
keiser	keiser
ken	ken
kendal	kendal
kennel	kennel
kent	kent
kentish	kentish
kentishman	kentishman
kentishmen	kentishmen
kept	kept
kerchief	kerchief
kerely	kere
kern	kern
kernal	kernal
kernel	kernel
kernels	kernel
kerns	kern
kersey	kersei
kettle	kettl
kettledrum	kettledrum
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key	kei
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kibe	kibe
kibes	kibe
kick	kick
kicked	kick
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kicky	kicki
kid	kid

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kikely kike
kildare kildar
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lackbeard lackbeard
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ladders ladder
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ladybird ladybird
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lapland lapland
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laquais laquai
larded lard
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lark lark
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larron larron
lartius lartiu
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latch latch
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laud laud
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laughs laugh
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leak	leak
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leander	leander
leaner	leaner
leaning	lean
leanness	lean
leans	lean
leap	leap
leaped	leap
leaping	leap
leaps	leap
leapt	leapt
lear	lear
learn	learn
learned	learn
learnedly	learnedli
learning	learn
learnings	learn
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learnt	learnt
leas	lea
lease	leas
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leash	leash
leasing	leas
least	least
leather	leather
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leman leman
lemon lemon
lena lena
lend lend

lender	lender
lending	lend
lendings	lend
lends	lend
length	length
lengthen	lengthen
lengthens	lengthen
lengths	length
lenity	leniti
lennox	lennox
lent	lent
lenten	lenten
lentus	lentu
leo	leo
leon	leon
leonardo	leonardo
leonati	leonati
leonato	leonato
leonatus	leonatu
leontes	leont
leopard	leopard
leopards	leopard
leper	leper
leperous	leper
lepidus	lepidu
leprosy	leprosi
lequel	lequel
lers	ler
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less	less
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lesser	lesser
lesson	lesson
lessoned	lesson
lessons	lesson
lest	lest
lestrake	lestrak
let	let
lethargied	lethargi
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lethargy	lethargi
lethe	leth
lets	let
lett	lett
letter	letter
letters	letter
letting	let

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level level
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levels level
leven leven
levers lever
leviathan leviathan
leviathans leviathan
levied levi
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levity leviti
levy levi
levying levi
lewd lewd
lewdly lewdli
lewdness lewd
lewdsters lewdster
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liable liabl
liar liar
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libbard libbard
libelling libel
libels libel
liberal liber
liberality liber
liberte libert
liberties liberti
libertine libertin
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liberty liberti
library librari
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licence licenc
licens licen
license licens
licentious licenti
lichas licha
licio licio
lick lick
licked lick
licker licker
lictors lictor
lid lid

lids lid
lie lie
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lief lief
liefest liefest
liege lieg
liegeman liegeman
liegemen liegemen
lien lien
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liest liest
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lieutenant lieuten
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life life
lifeblood lifeblood
lifeless lifeless
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lilies lili
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limander limand
limb limb
limbeck limbeck
limbecks limbeck
limber limber
limbo limbo
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lime lime
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limehouse limehous
limekilns limekiln
limit limit
limitation limit
limited limit
limits limit
limn limn
limp limp
limping limp
limps limp
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lincoln lincoln
lincolnshire lincolnshir
line line
lineal lineal
lineally lineal
lineament lineament
lineaments lineament
lined line
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linens linen
lines line
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lingare lingar
linger linger
lingered linger
lingers linger
linguist linguist

lining	line
link	link
links	link
linsey	linsei
linstock	linstock
linta	linta
lion	lion
lionel	lionel
lioness	lioness
lions	lion
lip	lip
lipp	lipp
lips	lip
lipsbury	lipsburi
liquid	liquid
liquor	liquor
liquorish	liquorish
liquors	liquor
lirra	lirra
lisbon	lisbon
lisp	lisp
lisping	lisp
list	list
listen	listen
listening	listen
lists	list
literatured	literatur
lither	lither
litter	litter
little	littl
littlest	littlest
liv	liv
live	live
lived	live
livelier	liveli
livelihood	livelihood
livelong	livelong
lively	live
liver	liver
liveries	liveri
livers	liver
livery	liveri
lives	live
livest	livest
liveth	liveth
livia	livia
living	live

livings live
lizard lizard
lizards lizard
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lo lo
loa loa
loach loach
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loading load
loads load
loaf loaf
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loan loan
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lobbies lobbi
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local local
lochaber lochab
lock lock
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lockram lockram
locks lock
locusts locust
lode lode
lodg lodg
lodge lodg
lodged lodg
lodgers lodger
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lodgings	lodg
lodovico	lodovico
lodowick	lodowick
lofty	lofti
log	log
logger	logger
loggerhead	loggerhead
loggerheads	loggerhead
loggets	logget
logic	logic
logs	log
loins	loin
loiter	loiter
loiterer	loiter
loiterers	loiter
loitering	loiter
lolling	loll
lolls	loll
lombardy	lombardi
london	london
londoners	london
lone	lone
loneliness	loneli
lonely	lone
long	long
longaville	longavil
longboat	longboat
longed	long
longer	longer
longest	longest
longeth	longeth
longing	long
longings	long
longly	longli
longs	long
longtail	longtail
loo	loo
loof	loof
look	look
looked	look
looker	looker
lookers	looker
lookest	lookest
looking	look
looks	look
loon	loon
loop	loop

loos	loo
loose	loos
loosed	loos
loosely	loos
loosen	loosen
loosing	loos
lop	lop
lopp	lopp
loquitur	loquitur
lord	lord
lorded	lord
lording	lord
lordings	lord
lordliness	lordli
lordly	lordli
lords	lord
lordship	lordship
lordships	lordship
lorenzo	lorenzo
lorn	lorn
lorraine	lorrain
lorship	lorship
los	lo
lose	lose
loser	loser
losers	loser
loses	lose
losest	losest
loseth	loseth
losing	lose
loss	loss
losses	loss
lost	lost
lot	lot
lots	lot
lott	lott
lottery	lotteri
loud	loud
louder	louder
loudly	loudli
lour	lour
loureth	loureth
louring	lour
louse	lous
louses	lous
lousy	lousi

lout	lout
louted	lout
louts	lout
louvre	louvr
lov	lov
love	love
loved	love
lovedst	lovedst
lovel	lovel
lovelier	loveli
loveliness	loveli
lovell	lovel
lovely	love
lover	lover
lovered	lover
lovers	lover
loves	love
lovest	lovest
loveth	loveth
loving	love
lovingly	lovingli
low	low
lowe	low
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lowing	low
lowliness	lowli
lowly	lowli
lown	lown
lowness	low
loyal	loyal
loyally	loyal
loyalties	loyalti
loyalty	loyalti
lozel	lozel
lt	lt
lubber	lubber
lubberly	lubberli
luc	luc
luccicos	luccico
luce	luce
lucentio	lucentio
luces	luce
lucetta	lucetta
luciana	luciana
lucianus	lucianu
lucifer	lucif

lucifier lucifi
lucilius luciliu
lucina lucina
lucio lucio
lucius luciu
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lucky lucki
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lucullius luculliu
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lucy luci
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ludlow ludlow
lug lug
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luke luke
lukewarm lukewarm
lull lull
lulla lulla
lullaby lullabi
lulls lull
lumbert lumbert
lump lump
lumpish lumpish
luna luna
lunacies lunaci
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lunes lune
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lurketh lurketh
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lurks lurk
luscious lusciou

lush lush
lust lust
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lustig lustig
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lustily lustili
lustre lustr
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lusts lust
lusty lusti
lute lute
lutes lute
lutestring lutestr
lutheran lutheran
luxurious luxuri
luxuriously luxuri
luxury luxuri
ly ly
lycaonia lycaonia
lycurguses lycurgus
lydia lydia
lye lye
lyen lyen
lying ly
lym lym
lymoges lymog
lynn lynn
lysander lysand
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maan maan
mab mab
macbeth macbeth
maccabaeus maccabaeu
macdonwald macdonwald
macduff macduff
mace mace
macedon macedon
maces mace
machiavel machiavel
machination machin
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macmorris macmorri
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madam madam
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madcap madcap
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magnanimity magnanim
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mahomet mahomet
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maid maid
maiden maiden
maidenhead maidenhead
maidenheads maidenhead
maidenhood maidenhood
maidenhoods maidenhood
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maidenly maidenli

maidens	maiden
maidhood	maidhood
maids	maid
mail	mail
mailed	mail
mails	mail
maim	maim
maimed	maim
maims	maim
main	main
maincourse	maincours
maine	main
mainly	mainli
mainmast	mainmast
mains	main
maintain	maintain
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maintenance	mainten
mais	mai
maison	maison
majestas	majesta
majestee	majeste
majestic	majest
majestical	majest
majestically	majest
majesties	majesti
majesty	majesti
major	major
majority	major
mak	mak
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makeless	makeless
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makers	maker
makes	make
makest	makest
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making	make
makings	make
mal	mal
mala	mala
maladies	maladi
malady	maladi
malapert	malapert
malcolm	malcolm
malcontent	malcont
malcontents	malcont

male male
maledictions maledict
malefactions malefact
malefactor malefactor
malefactors malefactor
males male
malevolence malevol
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malhecho malhecho
malice malic
malicious malici
maliciously malici
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malignancy malign
malignant malign
malignantly malignantli
malkin malkin
mall mall
mallard mallard
mallet mallet
mallows mallow
malmsey malmsei
malt malt
maltworms maltworm
malvolio malvolio
mamillius mamilliu
mammering mammer
mammet mammet
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mammock mammock
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manacle manacl
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mandate mandat
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mandrake mandrak
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mangle mangl
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manifest manifest
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manifoldly manifoldli
manka manka
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marcade	marcad
marcellus	marcellu
march	march
marches	march
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marching	march
marchioness	marchio
marchpane	marchpan
marcians	marcian
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mare	mare
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marg	marg
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margaret	margaret
marge	marg
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margery	margeri
maria	maria
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maries	mari
marigold	marigold
mariner	marin
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maritime	maritim
marjoram	marjoram
mark	mark
marked	mark
market	market
marketable	market
marketplace	marketplac
markets	market
marking	mark
markman	markman
marks	mark
marl	marl
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marmoset	marmoset
marquess	marquess
marquis	marqui
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marriage	marriag
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marrow	marrow
marrowless	marrowless
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mars	mar
marseilles	marseil
marsh	marsh
marshal	marshal
marshalsea	marshalsea
marshalship	marshalship
mart	mart
marted	mart
martem	martem
martext	martext
martial	martial
martin	martin
martino	martino
martius	martiu
martlemas	martlema
martlet	martlet
marts	mart
martyr	martyr
martyrs	martyr
marullus	marullu
marv	marv
marvel	marvel
marvell	marvel
marvellous	marvel
marvellously	marvel
marvels	marvel
mary	mari
mas	ma
masculine	masculin
masham	masham
mask	mask
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masks	mask
mason	mason
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masterless masterless
masterly masterli
masterpiece masterpiec
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mastership mastership
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mastiff mastiff
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matcheth matcheth
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mate mate
mated mate
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mathematics mathemat
matin matin
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matrons matron
matter matter
matters matter
matthew matthew
mattock mattock
mattress mattress
mature matur
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maud maud
maudlin maudlin
maugre maugr

maul	maul
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mauri	mauri
mauritania	mauritania
mauvais	mauvai
maw	maw
maws	maw
maxim	maxim
may	mai
mayday	maydai
mayest	mayest
mayor	mayor
maypole	maypol
mayst	mayst
maz	maz
maze	maze
mazed	maze
mazes	maze
mazzard	mazzard
me	me
meacock	meacock
mead	mead
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meal	meal
meals	meal
mealy	meali
mean	mean
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meaning	mean
meanings	mean
meanly	meanli
means	mean
meant	meant
meantime	meantim
meanwhile	meanwhil
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mediterraneum mediterraneum
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meg	meg
mehercle	mehercl
meilleur	meilleur
meiny	meini
meisen	meisen
melancholies	melancholi
melancholy	melancholi
melford	melford
mell	mell
mellifluous	melliflu
mellow	mellow
mellowing	mellow
melodious	melodi
melody	melodi
melt	melt
melted	melt
melteth	melteth
melting	melt
melts	melt
melun	melun
member	member
members	member
memento	memento
memorable	memor
memorandums	memorandum
memorial	memori
memorials	memori
memories	memori
memoriz	memoriz
memorize	memor
memory	memori
memphis	memphi
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menaphon	menaphon
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menecrates	menecr
menelaus	menelau
menenius	meneniu
mental	mental

menteith	menteith
mention	mention
mentis	menti
menton	menton
mephostophilus	mephostophilu
mer	mer
mercatante	mercatant
mercatio	mercatio
mercenaries	mercenari
mercenary	mercenari
mercer	mercer
merchandise	merchandis
merchandized	merchand
merchant	merchant
merchants	merchant
mercies	merci
merciful	merci
mercifully	mercifulli
merciless	merciless
mercurial	mercuri
mercuries	mercuri
mercury	mercuri
mercutio	mercutio
mercy	merci
mere	mere
mered	mere
merely	mere
merest	merest
meridian	meridian
merit	merit
merited	merit
meritorious	meritori
merits	merit
merlin	merlin
mermaid	mermaid
mermaids	mermaid
merops	merop
merrier	merrier
merriest	merriest
merrily	merrili
merriman	merriman
merriment	merriment
merriments	merriment
merriness	merri
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mervailous	mervail
mes	me
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meshes mesh
mesopotamia mesopotamia
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messenger messeng
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met met
metal metal
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metamorphis metamorphi
metamorphoses metamorphos
metaphor metaphor
metaphysical metaphys
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meteor meteor
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meus meu
mew mew
mewed mew
mewling mewl
mexico mexico
mi mi
mice mice
michael michael
michaelmas michaelma

micher micher
miching mich
mickle mickl
microcosm microcosm
mid mid
midas mida
middest middest
middle middl
middleham middleham
midnight midnight
midriff midriff
midst midst
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midway midwai
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mildew mildew
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mildly mildli
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mile mile
miles mile
milford milford
militarist militarist
military militari
milk milk
milking milk
milkmaid milkmaid
milks milk
milksops milksop
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mill mill

mille	mill
miller	miller
milliner	millin
million	million
millioned	million
millions	million
mills	mill
millstones	millston
milo	milo
mimic	mimic
minc	minc
mince	minc
minces	minc
mincing	minc
mind	mind
minded	mind
minding	mind
mindless	mindless
minds	mind
mine	mine
mineral	miner
minerals	miner
minerva	minerva
mines	mine
mingle	mingl
mingled	mingl
mingling	mingl
minikin	minikin
minim	minim
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minimo	minimo
minimus	minimu
mining	mine
minion	minion
minions	minion
minist	minist
minister	minist
ministers	minist
ministration	ministr
minnow	minnow
minnows	minnow
minola	minola
minority	minor
minos	mino
minotaurs	minotaur
minstrel	minstrel
minstrels	minstrel

minstrelsy	minstrelsi
mint	mint
mints	mint
minute	minut
minutely	minut
minutes	minut
minx	minx
mio	mio
mir	mir
mirable	mirabl
miracle	miracl
miracles	miracl
miraculous	miracul
miranda	miranda
mire	mire
mirror	mirror
mirrors	mirror
mirth	mirth
mirthful	mirth
miry	miri
mis	mi
misadventur	misadventur
misadventure	misadventur
misanthropos	misanthropo
misapplied	misappli
misbecame	misbecam
misbecom	misbecom
misbecome	misbecom
misbegot	misbegot
misbegotten	misbegotten
misbeliever	misbeliev
misbelieving	misbeliev
misbhav	misbhav
miscall	miscal
miscalled	miscal
miscarried	miscarri
miscarries	miscarri
miscarry	miscarri
miscarrying	miscarri
mischance	mischanc
mischances	mischanc
mischief	mischief
mischiefs	mischief
mischievous	mischiev
misconceived	misconceiv
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misconstruction misconstruct
misconstrued misconstru
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miscreant miscreant
miscreate miscreat
misdeed misde
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misdemean misdemean
misdemeanours misdemeanour
misdoubt misdoubt
misdoubteth misdoubteth
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misenum misenum
miser miser
miserable miser
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misfortune misfortun
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misproud	misproud
misquote	misquot
misreport	misreport
miss	miss
missed	miss
misses	miss
misshap	misshap
misshapen	misshapen
missheathed	missheath
missing	miss
missingly	missingli
missions	mission
missive	missiv
missives	missiv
misspoke	misspok
mist	mist
mista	mista
mistak	mistak
mistake	mistak
mistaken	mistaken
mistakes	mistak
mistaketh	mistaketh
mistaking	mistak
mistakings	mistak
mistemp	mistemp
mistempered	mistemp
misterm	misterm
mistful	mist
misthink	misthink
misthought	misthought
mistletoe	mistleto
mistook	mistook
mistreadings	mistread
mistress	mistress
mistresses	mistress
mistresss	mistresss
mistriship	mistriship
mistrust	mistrust
mistrusted	mistrust
mistrustful	mistrust
mistrusting	mistrust
mists	mist
misty	misti
misus	misu
misuse	misus
misused	misus
misuses	misus

mites mite
mithridates mithrid
mitigate mitig
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moan moan
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model model
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modo modo
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moldwarp moldwarp
mole mole
molehill molehil

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molest molest
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mollification mollif
mollis molli
molten molten
molto molto
mome mome
moment moment
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mon mon
monachum monachum
monarch monarch
monarchies monarchi
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monarcho monarcho
monarchs monarch
monarchy monarchi
monast monast
monastery monasteri
monastic monast
monday mondai
monde mond
money monei
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monk monk
monkey monkei
monkeys monkei
monks monk
monmouth monmouth
monopoly monopoli
mons mon
monsieur monsieur
monsieurs monsieur
monster monster
monsters monster
monstrous monstrou
monstrously monstrous
monstrousness monstrous

monstruosity monstruos
montacute montacut
montage montag
montague montagu
montagues montagu
montano montano
montant montant
montez montez
montferrat montferrat
montgomery montgomeri
month month
monthly monthli
months month
montjoy montjoi
monument monument
monumental monument
monuments monument
mood mood
moods mood
moody moodi
moon moon
moonbeams moonbeam
moonish moonish
moonlight moonlight
moons moon
moonshine
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moonshines moonshin
moor moor
moorfields moorfield
moors moor
moorship moorship
mop mop
mope mope
moping mope
mopping mop
mopsa mopsa
moral moral
moraler moral
morality moral
moralize moral
mordake mordak
more more
moreover moreov
mores more
morgan morgan
mori mori
morisco morisco

morn	morn
morning	morn
mornings	morn
morocco	morocco
morris	morri
morrow	morrow
morrows	morrow
morsel	morsel
morsels	morsel
mort	mort
mortal	mortal
mortality	mortal
mortally	mortal
mortals	mortal
mortar	mortar
mortgaged	mortgag
mortified	mortifi
mortifying	mortifi
mortimer	mortim
mortimers	mortim
mortis	morti
mortise	mortis
morton	morton
mose	mose
moss	moss
mossgrown	mossgrown
most	most
mote	mote
moth	moth
mother	mother
mothers	mother
moths	moth
motion	motion
motionless	motionless
motions	motion
motive	motiv
motives	motiv
motley	motlei
mots	mot
mought	mought
mould	mould
moulded	mould
mouldeth	mouldeth
moulds	mould
mouldy	mouldi
moult	moult

moulten	moulten
mounch	mounch
mounseur	mounseur
mounsieur	mounsieur
mount	mount
mountain	mountain
mountaineer	mountain
mountaineers	mountain
mountainous	mountain
mountains	mountain
mountant	mountant
mountanto	mountanto
mountebank	mountebank
mountebanks	mountebank
mounted	mount
mounteth	mounteth
mounting	mount
mounts	mount
mourn	mourn
mourned	mourn
mourner	mourner
mourners	mourner
mournful	mourn
mournfully	mournfulli
mourning	mourn
mourningly	mourningli
mournings	mourn
mourns	mourn
mous	mou
mouse	mous
mousetrap	mousetrap
mousing	mous
mouth	mouth
mouthed	mouth
mouths	mouth
mov	mov
movables	movabl
move	move
moveable	moveabl
moveables	moveabl
moved	move
mover	mover
movers	mover
moves	move
moveth	moveth
moving	move
movingly	movingli
movousus	movousu

mow mow
mowbray mowbrai
mower mower
mowing mow
mows mow
moy moi
moys moi
moyses moys
mrs mr
much much
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mud mud
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mugger mugger
mugs mug
mulberries mulberri
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mule mule
mules mule
muleteers mulet
mulier mulier
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mull mull
mulmutius mulmutiu
multiplied multipli
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multipotent multipot
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multitudes multitud
multitudinous multitudin
mum mum
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mumbling mumbl
mummers mummer
mummy mummi
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munch	munch
muniments	muniment
munition	munit
murd	murd
murder	murder
murdered	murder
murderer	murder
murderers	murder
murdering	murder
murderous	murder
murders	murder
mure	mure
murk	murk
murkiest	murkiest
murky	murki
murmur	murmur
murmurers	murmur
murmuring	murmur
murrain	murrain
murray	murrai
murrion	murrion
murther	murther
murtherer	murther
murtherers	murther
murthering	murther
murtherous	murther
murthers	murther

mus	mu
muscadel	muscadel
muscovites	muscovit
muscovits	muscovit
muscovy	muscovi
muse	muse
muses	muse
mush	mush
mushrooms	mushroom
music	music
musical	music
musician	musician
musicians	musician
musics	music
musing	muse
musings	muse
musk	musk
musket	musket
muskets	musket
muskos	musko

muss muss
mussel mussel
mussels mussel
must must
mustachio mustachio
mustard mustard
mustardseed mustardse
muster muster
mustering muster
musters muster
musty musti
mutability mutabl
mutable mutabl
mutation mutat
mutations mutat
mute mute
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mutest mutest
mutine mutin
mutineer mutin
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mutinies mutini
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mutius mutiu
mutter mutter
muttered mutter
mutton mutton
muttons mutton
mutual mutual
mutualities mutual
mutually mutual
muzzl muzzl
muzzle muzzl
muzzled muzzl
mv mv
mww mww
my my
mynheers mynheer
myrmidon myrmidon
myrmidons myrmidon
myrtle myrtl
myself myself
myst myst
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mystery	mysteri
n	n
nag	nag
nage	nage
nags	nag
naiads	naiad
nail	nail
nails	nail
nak	nak
naked	nake
nakedness	naked
nal	nal
nam	nam
name	name
named	name
nameless	nameless
namely	name
names	name
namest	namest
naming	name
nan	nan
nance	nanc
nap	nap
nape	nape
napes	nape
napkin	napkin
napkins	napkin
naples	napl
napless	napless
napping	nap
naps	nap
narbon	narbon
narcissus	narcissu
narines	narin
narrow	narrow
narrowly	narrowli
naso	naso
nasty	nasti
nathaniel	nathaniel
natifs	natif
nation	nation
nations	nation
native	nativ
nativity	nativ
natur	natur
natural	natur
naturalize	natur

naturally	natur
nature	natur
natured	natur
natures	natur
natus	natu
naught	naught
naughtily	naughtili
naughty	naughti
navarre	navarr
nave	nave
navel	navel
navigation	navig
navy	navi
nay	nai
nayward	nayward
nayword	nayword
nazarite	nazarit
ne	ne
neaf	neaf
neamnoins	neamnoin
neanmoins	neanmoin
neapolitan	neapolitan
neapolitans	neapolitan
near	near
nearer	nearer
nearest	nearest
nearly	nearli
nearness	near
neat	neat
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ringleader	ringlead
ringlets	ringlet
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ringwood	ringwood
riot	riot
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scarecrow	scarecrow
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scrip scrip
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scroop scroop
scrowl scrowl
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scullion	scullion
sculls	scull
scum	scum
scurril	scurril
scurrility	scurril
scurrilous	scurril
scurvy	scurvi
scuse	scuse
scut	scut
scutcheon	scutcheon
scutcheons	scutcheon
scylla	scylla
scythe	scyth
scythed	scyth
scythia	scythia
scythian	scythian
sdeath	sdeath
se	se
sea	sea
seacoal	seacoal
seafaring	seafar
seal	seal
sealed	seal
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seals	seal
seam	seam
seamen	seamen
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seaport	seaport
sear	sear
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search	search
searchers	searcher
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seared	sear
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seasick	seasick
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seats	seat
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seleucus	seleucu
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selfsame	selfsam
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seller	seller
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semi	semi
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senate	senat
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seneca	seneca
senior	senior
seniory	seniori
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sensible	sensibl
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separable	separ
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sepulchre	sepulchr
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sequel	sequel
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sermon	sermon
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serpent	serpent
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servingmen	servingmen
serviteur	serviteur
servitor	servitor
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sessa	sessa
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shaking	shake
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shalt	shalt
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shame	shame
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sharers	sharer
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sharpest	sharpest
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shuttle	shuttl
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sicil	sicil
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sicilius	siciliu
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sicily	sicili
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silkman	silkman
silks	silk
silliest	silliest
silliness	silli
silling	sill
silly	silli

silva	silva
silver	silver
silvered	silver
silverly	silverli
silvia	silvia
silvius	silviu
sima	sima
simile	simil
similes	simil
simois	simoi
simon	simon
simony	simoni
simp	simp
simpcox	simpcox
simple	simpl
simpleness	simpl
simpler	simpler
simples	simpl
simplicity	simplic
simply	simpli
simular	simular
simulation	simul
sin	sin
since	sinc
sincere	sincer
sincerely	sincer
sincerity	sincer
sinel	sinel
sinew	sinew
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sinful	sin
sinfully	sinfulli
sing	sing
singe	sing
singeing	sing
singer	singer
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singled	singl
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singular	singular
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sinister sinist
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sip sip
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sir sir
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siren siren
sirrah sirrah
sirs sir
sist sist
sister sister
sisterhood sisterhood
sisterly sisterli
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skies	ski
skilful	skil
skilfully	skilfulli
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skillet	skillet
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skin	skin
skinker	skinker
skinny	skinni
skins	skin
skip	skip
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skipping	skip
skirmish	skirmish
skirmishes	skirmish
skirr	skirr
skirted	skirt
skirts	skirt
skittish	skittish
skulking	skulk
skull	skull
skulls	skull
sky	sky
skyey	skyei
skyish	skyish
slab	slab
slack	slack
slackly	slackli
slackness	slack
slain	slain
slake	slake
sland	sland
slander	slander
slandered	slander
slanderer	slander
slanderers	slander
slandering	slander
slanderous	slander
slanders	slander
slash	slash

slaught	slaught
slaughter	slaughter
slaughtered	slaughter
slaughterer	slaughter
slaughterman	slaughterman
slaughtermen	slaughtermen
slaughterous	slaughter
slaughters	slaughter
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slaver	slaver
slavery	slaveri
slaves	slave
slavish	slavish
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slaying	slai
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sleekly	sleekli
sleep	sleep
sleeper	sleeper
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sleeps	sleep
sleepy	sleepi
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slenderly	slenderli
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slice	slice
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slop slop
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sloth sloth
slothful sloth
slough slough
slovenly slovenli
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slower slower
slowly slowli
slowness slow
slubber slubber
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sluggard sluggard
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smoothly	smoothli
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snapper	snapper
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snarleth	snarleth
snarling	snarl
snatch	snatch
snatchers	snatcher
snatches	snatch
snatching	snatch
sneak	sneak
sneaking	sneak
sneap	sneap
sneaping	sneap
sneck	sneck
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snipe	snipe
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sob sob
sobbing sob
sober sober
soberly soberli
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socrates socrat
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sola sola
solace solac
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soldat soldat
solder solder
soldest soldest
soldier soldier
soldiers soldier
soldiership soldiership

sole sole
solely sole
solem solem
solemn solemn
solemness solem
solemnities solemn
solemnity solemn
solemniz solemniz
solemnize solemn
solemnized solemn
solemnly solemnli
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solicitation solicit
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solicitings solicit
solicitor solicitor
solicits solicit
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solidares solidar
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solinus solinu
solitary solitari
solomon solomon
solon solon
solum solum
solus solu
solyman solyman
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someone someon
somerset somerset
somerville somervil
something someth
sometime sometim
sometimes sometim
somever somev
somewhat somewhat
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somewhither somewhith
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son son
sonance sonanc
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songs song
sonnet sonnet

sonneting	sonnet
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sonties	sonti
soon	soon
sooner	sooner
soonest	soonest
sooth	sooth
soothe	sooth
soothers	soother
soothing	sooth
soothsay	soothsai
soothsayer	soothsay
sooty	sooti
sop	sop
sophister	sophist
sophisticated	sophist
sophy	sophi
sops	sop
sorcerer	sorcer
sorcerers	sorcer
sorceress	sorceress
sorceries	sorceri
sorcery	sorceri
sore	sore
sorel	sorel
sorely	sore
sorer	sorer
sores	sore
sorrier	sorrier
sorriest	sorriest
sorrow	sorrow
sorrowed	sorrow
sorrowest	sorrowest
sorrowful	sorrow
sorrowing	sorrow
sorrows	sorrow
sorry	sorri
sort	sort
sortance	sortanc
sorted	sort
sorting	sort
sorts	sort
sossius	sossiu
sot	sot
soto	soto

sots	sot
sottish	sottish
soud	soud
sought	sought
soul	soul
sould	sould
soulless	soulless
souls	soul
sound	sound
sounded	sound
sounder	sounder
soundest	soundest
sounding	sound
soundless	soundless
soundly	soundli
soundness	sound
soundpost	soundpost
sounds	sound
sour	sour
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sources	sourc
sourest	sourest
sourly	sourli
sours	sour
sous	sou
souse	sous
south	south
southam	southam
southampton	southampton
southerly	southerli
southern	southern
southward	southward
southwark	southwark
southwell	southwel
souviendrai	souviendrai
sov	sov
sovereign	sovereign
sovereignest	sovereignest
sovereignly	sovereignli
sovereignty	sovereignti
sovereignvours	sovereignvour
sow	sow
sowing	sow
sowl	sowl
sowter	sowter
space	space
spaces	space

spacious spaciou
spade spade
spades spade
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spak spak
spake spake
spakest spakest
span span
spangle spangl
spangled spangl
spaniard spaniard
spaniel spaniel
spaniels spaniel
spanish spanish
spann spann
spans span
spar spar
spare spare
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sparing spare
sparingly sparingli
spark spark
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sparkling sparkl
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sparrow sparrow
sparrows sparrow
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spavin spavin
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spawn spawn
speak speak
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speakers speaker
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speaking speak
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spear spear
speargrass speargrass
spears spear
special special
specialities special
specially special

specialties specialti
specialty specialti
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speciously specious
spectacle spectacl
spectacled spectacl
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spectatorship spectatorship
speculation specul
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speech speech
speeches speech
speechless speechless
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speeding speed
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speedy speedi
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spell spell
spelling spell
spells spell
spelt spelt
spencer spencer
spend spend
spendest spendest
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spends spend
spendthrift spendthrift
spent spent
sperato sperato
sperm sperm
spero spero
sperr sperr
spher spher
sphere sphere
sphered sphere
spheres sphere
spherical spheric
sphery spheri
sphinx sphinx

spice	spice
spiced	spice
spicery	spiceri
spices	spice
spider	spider
spiders	spider
spied	spi
spies	spi
spieth	spieth
spightfully	spightfulli
spigot	spigot
spill	spill
spilling	spill
spills	spill
spilt	spilt
spilth	spilth
spin	spin
spinii	spinii
spinners	spinner
spinster	spinster
spinsters	spinster
spire	spire
spirit	spirit
spirited	spirit
spiritless	spiritless
spirits	spirit
spiritual	spiritu
spiritualty	spiritualti
spirt	spirt
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spiteful	spite
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spitted	spit
spitting	spit
splay	splai
spleen	spleen
spleenful	spleen
spleens	spleen
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splendour	splendour
splenitive	splenit
splinter	splinter

splinters	splinter
split	split
splits	split
splitted	split
splitting	split
spoil	spoil
spoils	spoil
spok	spok
spoke	spoke
spoken	spoken
spokes	spoke
spokesman	spokesman
sponge	spong
spongy	spongi
spoon	spoon
spoons	spoon
sport	sport
sportful	sport
sporting	sport
sportive	sportiv
sports	sport
spot	spot
spotless	spotless
spots	spot
spotted	spot
spousal	spousal
spouse	spous
spout	spout
spouting	spout
spouts	spout
sprag	sprag
sprang	sprang
sprat	sprat
sprawl	sprawl
spray	sprai
sprays	sprai
spread	spread
spreading	spread
spreads	spread
sprighted	spright
sprightful	spright
sprightly	sprightli
sprigs	sprig
spring	spring
springe	spring
springes	spring
springeth	springeth
springhalt	springhalt

springing spring
springs spring
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sprinkle sprinkl
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spritely sprite
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spruce spruce
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spurio spurio
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squadron squadron
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staff staff
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stair stair
stairs stair
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stamford stamford
stammer stammer
stamp stamp

stamped	stamp
stamps	stamp
stanch	stanch
stanchless	stanchless
stand	stand
standard	standard
standards	standard
stander	stander
standers	stander
standest	standest
standeth	standeth
standing	stand
stands	stand
staniel	staniel
stanley	stanlei
stanze	stanz
stanzo	stanzo
stanzos	stanzo
staple	stapl
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starlight	starlight
starling	starl
starr	starr
starry	starri
stars	star
start	start
started	start
starting	start
startingly	startingli
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starts	start
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starvelackey	starvelackei
starveling	starvel
starveth	starveth
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state	state
statelier	stateli
stately	state
states	state
statesman	statesman
statesmen	statesmen
statilius	statiliu
station	station
statist	statist
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statue	statu
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steadfast	steadfast
steadier	steadier
steads	stead
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stealer	stealer
stealers	stealer
stealing	steal
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stealth	stealth
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steering steer
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sterile steril
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stirrers	stirrer
stirreth	stirreth
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stirrup	stirrup
stirrups	stirrup
stirs	stir
stitchery	stitcheri
stitches	stitch
stithied	stithi
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stoccadoes	stoccado
stoccata	stoccata
stock	stock
stockfish	stockfish
stocking	stock
stockings	stock
stockish	stockish
stocks	stock
stog	stog
stogs	stog
stoics	stoic
stokesly	stokesli
stol	stol
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stolen	stolen
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stomach	stomach
stomachers	stomach
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ston	ston
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stonecutter stonecutt
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straining	strain
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strand	strand
strange	strang
strangely	strang
strangeness	strang
stranger	stranger
strangers	stranger
strangest	strangest
strangle	strangl
strangled	strangl
strangler	strangler
strangles	strangl
strangling	strangl
strappado	strappado
straps	strap
stratagem	stratagem
stratagems	stratagem
stratford	stratford
strato	strato
straw	straw
strawberries	strawberri
strawberry	strawberri
straws	straw
strawy	strawi
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streamers	streamer
streaming	stream
streams	stream
streching	strech
street	street
streets	street
strength	strength
strengthen	strengthen
strengthened	strengthen
strengthless	strengthless

strengths strength
stretch stretch
stretched stretch
stretches stretch
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stricken stricken
strict strict
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stung stung
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stupid stupid

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stuprum stuprum
sturdy sturdi
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styga styga
stygian stygian
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su su
sub sub
subcontracted subcontract
subdu subdu
subdue subdu
subdued subdu
subduements subduement
subdues subdu
subduing subdu
subject subject
subjected subject
subjection subject
subjects subject
submerg submerg
submission submiss
submissive submiss
submit submit
submits submit
submitting submit
suborn suborn
subornation suborn
suborned suborn
subscrib
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subscribe subscrib
subscribed subscrib
subscribes subscrib
subscription subscript
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subtractors subtractor
suburbs suburb
subversion subvers
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wounding	wound
woundings	wound
woundless	woundless
wounds	wound
wouns	woun
woven	woven
wow	wow
wrack	wrack
wrackful	wrack
wrangle	wrangl
wrangler	wrangler
wranglers	wrangler
wrangling	wrangl
wrap	wrap
wrapp	wrapp
wraps	wrap
wrapt	wrapt
wrath	wrath
wrathful	wrath
wrathfully	wrathfulli
wraths	wrath
wreak	wreak
wreakful	wreak
wreaks	wreak
wreath	wreath
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wreathen	wreathen
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wrenching wrench
wrens wren
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wrist wrist
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wronk wronk
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yard yard
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yarely yare
yarn yarn
yaughan yaughan
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ycliped yclipe
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yea yea
yead yead
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yearly yearli
yearn yearn
yearns yearn
years year
yeas yea
yeast yeast
yedward yedward
yell yell
yellow yellow
yellowed yellow
yellowing yellow
yellowness yellow
yellows yellow
yells yell
yelping yelp
yeoman yeoman
yeomen yeomen
yerk yerk
yes ye
yesterday yesterdai

yesterdays	yesterdai
yesternight	yesternight
yesty	yesti
yet	yet
yew	yew
yicld	yicld
yield	yield
yielded	yield
yielder	yielder
yielders	yielder
yielding	yield
yields	yield
yok	yok
yoke	yoke
yoked	yoke
yokefellow	yokefellow
yokes	yoke
yoketh	yoketh
yon	yon
yond	yond
yonder	yonder
yongrey	yongrei
yore	yore
yorick	yorick
york	york
yorkists	yorkist
yorks	york
yorkshire	yorkshir
you	you
young	young
younger	younger
youngest	youngest
youngling	youngl
younglings	youngl
youngly	youngli
younker	younker
your	your
yours	your
yourself	yourself
yourselves	yourselv
youth	youth
youthful	youth
youths	youth
youtli	youtli
zanies	zani
zany	zani
zeal	zeal

```
  zealous             zealou
  zeals               zeal
  zed                 zed
  zenelophon          zenelophon
  zenith              zenith
  zephyrs             zephyr
  zir                 zir
  zo                  zo
  zodiac              zodiac
  zodiacs             zodiac
  zone                zone
  zounds              zound
  zwagger             zwagger
}


# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
 CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
 do_test fts1porter-$pfrom {
   execsql {
     DELETE FROM t1_term;
     DELETE FROM t1_content;
     INSERT INTO t1(word) VALUES($pfrom);
     SELECT term FROM t1_term;
   }
 } $pto
}

finish_test
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/test/fts1porter.test
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/rtree.html

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```
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/src/pager.c
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```
application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the
```

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/c3ref/c_config_covering_index_scan.html
No license file was found, but licenses were detected in source scan.

```
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless,
zero-configuration, transactional SQL database engine.
Programs that link with the SQLite library can have SQL database access
without running a separate RDBMS process. The distribution comes with a
standalone command-line access program (sqlite) that can be used to
administer an SQLite database and which serves as an example of how to
use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
```

Group: Development/C
Requires:
 %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed
to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="%optflags -DNDEBUG=1" CXXFLAGS="%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}

make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig

%postun -p /sbin/ldconfig

%clean
rm -fr $RPM_BUILD_ROOT

%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*

%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
%{_libdir}/*.a
%{_libdir}/*.la
%{_includedir}/*
%doc doc/*

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-src-3071700.zip-cosi-expand-archive-j5C3RGZK/sqlite-src-3071700/spec.template

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members can also request their own private, proprietary extensions

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/consortium.html
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public domain. No claim of ownership is made

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/faq.html
No license file was found, but licenses were detected in source scan.

)print dup(   )cvs print

Found in path(s):
* {cvx $error/errorname get(Error
No license file was found, but licenses were detected in source scan.

SQLite is in the public domain. This document describes what that means

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/docs.html
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
* /sqlite-3.7.17-8.el7.src.rpm-cosi-expand-archive-koQ6tDfi/sqlite-doc-3071700.zip-cosi-expand-archive-rR0OwP1u/sqlite-doc-3071700/uri.html
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /

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