



# Open Source Used In Cisco Emergency Responder 12.5su4

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jloup@gzip.org  
madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <ftp://ds.internic.net/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](ftp://ds.internic.net/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](ftp://ds.internic.net/rfc/rfc1952.txt) (gzip format).  
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## 1.3 xerces-c 2.7.0

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

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

December 3, 2004

## 1.6 pcre 7.8

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-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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## 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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\*  
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```
<one line to  
give the program's name and a brief idea of what it does.>  
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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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

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

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## 1.9 ncurses 5.7

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## 1.10 libjpeg 6b

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=====

README for release 6b of 27-Mar-1998

=====

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

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

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

## DOCUMENTATION

### ROADMAP

=====

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

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

Programmer and internal  
documentation:

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

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

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

## OVERVIEW

=====

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

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

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

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

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

in JFIF files.

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

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

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

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the

resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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## REFERENCES

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We

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

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

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

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

The

JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified

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

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

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

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

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

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrsrc.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/](http://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](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

#### RELATED SOFTWARE

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably [ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/](http://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/). Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is;

you are likely to have difficulty making it work on any non-Unix machine.

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

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO

=====

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

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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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glennrp at users.sourceforge.net  
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```
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```

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```
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```

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Theodore Ts'o  
23-June-2007

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## 1.14 glibc 2.13

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For

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## 1.15 iptables 1.3.7

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```
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 * $Header$
 * $Source$
 * $Locker$
 *
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 */
```

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Theodore Ts'o  
23-June-2007

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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*
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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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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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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## 1.28 udev 172

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```

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# 1.29 zlib 1.2.8

## 1.29.1 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

# 1.30 omx 1.1.2

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```
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\*/

/\*\*

src/extension\_struct.h

This file will include all the extension structures defined in Bellagio and not present in the OpenMAX spec. These structure will be used with the function getExtensionIndex defined in the standard.

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 * $Header: /home/cvs/jakarta-
commons/collections/src/java/org/apache/commons/collections/TransformIterator.java,v 1.7 2002/10/12 22:15:18
scolebourne Exp $
 * $Revision: 1.7 $
 * $Date: 2002/10/12 22:15:18 $
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## 1.32 ncurses 5.9

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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## 1.38 `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

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

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 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 |
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Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg

-at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar\_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando

Cacciola (fernando\_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando\_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUF.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganauge (Gottfried.Ganssaue -at- HAUF.DE) (Alternative spelling of Gottfried Ganssaue)

Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Herv

Brnnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcnny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert\_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Jrv (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)

John Maddock (john - at - johnmaddock.co.uk)

John R Bandela (jbandela-at-ufl.edu)

Jonathan Turkanis (turkanis -at- coderage dot com)

Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)

Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)

Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)

Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)

Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)

Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)

Mac Murrett (mmurrett -at- mac.com)

Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)

Michael Glassford (glassfordm - at - hotmail.com)

Michael Stevens (Michael.Stevens - at - epost.de)

Multi Media Ltd. (pdimov@mmltd.net)

Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)

Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)

Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)

Pavol Droba (droba -at- topmail.sk)

Peter Dimov (pdimov@mmltd.net)

R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- fill.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)  
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
Steve  
Cleary (Variant of Stephen Cleary)  
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)  
The Trustees of Indiana University ()  
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)  
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)  
Thorsten Ottosen (nesotto - at - cs.auc.dk)  
Toon Knapen (toon dot knapen - at - fft.be)  
Trustees of Indiana University ()  
University of Notre Dame ()  
Vladimir Prus (ghost@cs.msu.su)  
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
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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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.)

## 1.43 cjose 0.4.1

### 1.43.1 Available under license :

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## 1.44 bouncy-castle 1.56

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The following people and organisations donated financially to help with the release of 1.56:

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DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter

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<br />

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<p>

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<li><a href="http://www.atlassian.com/">Atlassian Software Systems</a> donation of Confluence and JIRA licences.</li>

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by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at:

<a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>

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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>

## People

[Tito Pena](#) <Fortunato.Pena@AdNovum.CH> - initial RC5 implementation

[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@csc.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.

[Waclaw](#)

[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 K&ouml;psell](#) <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.

Eugen Kuleshov <euxx@hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods <meganwoods@sekurafile.com> - initial implementation of ECIES.

Christian Geuer-Pollmann <geuerp@apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael M&#252;hle <michael@mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

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Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.

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Mike Bremford <mike@big.faceless.org> - contributing the initial PKCS7 implementation.

Shankar Srinivasan <ssr002@yahoo.com> - S/Mime interoperability testing and debugging.

Stef Hoeben <ilsestef@skynet.be> - adding Montgomery multiplication to the BigInteger class.

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Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.

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objects without attribute blocks.</li>  
<li>Justin Chapweske <justin@chapweske.com> - ordering patch for Tiger message digest.</li>  
<li>John Serock <jserock@hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>  
<li>Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.</li>  
<li>Andre Wehnert <aw5@mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>  
<li>Luigi Lo Iacono <lo\_iacono@nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.</li>  
<li>Tim Sakach <tsakach@certivo.net> - SMIME v2 compatibility patches.</li>  
<li>Marcus Povey <mpovey@brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.</li>  
<li>Sebastian Clau <sc2@inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.</li>  
<li>Nicolas Bielza <nicolas.bielza@alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>  
<li>Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.</li>  
<li>Rick Zeldes <rick.zeldes@eds.com> - initial code for CMS/SMIME CompressedData.</li>  
<li>Jarek Gawor <gawor@mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>  
<li>Brett Neumeier <random@rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>  
<li>Graham Coles <graham.coles@retail-logic.com> - patch to isParityAdjusted in DESKeySpec.</li>  
<li>Jörn von Kattchee <J.Kattchee@seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>  
<li>Matteo Artuso <matartuso@libero.it> - picking up the possible overread in ASN1InputStream.</li>  
<li>Julian Morrison <julian@extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.</li>  
<li>Elmar Sonnenschein <eso@esomail.de> - fix to long conversion in clean room SecureRandom.</li>  
<li>Jörn Schwarze <JSchwarze@ulc.de> - Locale fix for the clean room JCE.</li>  
<li>Bryan Lovquist <bkl@cps.com.au> - Other provider compatibility fixes for CMS signing.</li>  
<li>Artem Portnoy <Artem\_Portnoy@ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>  
<li>Michael Häusler <haeusler@ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.</li>  
<li>Johan Seland <johans@netfonds.no> - general toString for BigInteger class.</li>  
<li>Johannes Nicolai <johannes.nicolai@novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>  
<li>Marc Doberva <marc.doberva@iilex-si.com> - help in isolating the JSSE/BC RSA key issue.</li>  
<li>Jan Dvorak <jan.dvorak@mathan.cz> - initial implementation of the light weight Null block cipher.</li>  
<li>Joe Cohen <jcohen@forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>  
<li>Chris Long <along@ece.cmu.edu> - adding public key decoding to PEMReader.</li>  
<li>Hes Siemelink <hes@izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>

<li>Stefan Puiu<stefanpuiu@#064yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>

<li>Kaiser Yang <kaiseryang@#064yahoo.com> - Finding BigInteger loop problem in prime generation.</li>

<li>Jiri Urbanec <jiri.urbanec@#064logicacmg.com> - patch to fix defect in DERBMPString.equals().</li>

<li>Justin Kolb <jkolb@#064pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>

<li>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.</li>

<li>Michal Dvorak <M\_Dvorak@#064kb.cz> - getNextUpdate patch for OCSP SingleResp.</li>

<li>Klaus Greve Fiorentini <Klaus@#064cpqd.com.br> - array fix in PGP PublickKeyEncSessionPacket.</li>

<li>Olivier Refalo <Olivier\_Refalo@#064fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>

<li>Mariusz Bandola <mariusz.bandola@#064cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>

<li>Brien Oberstein <brien.oberstein@#064transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>

<li>Ian Haywood <ian@#064haywood.bpa.nu> - addition of getSignatureType to PGPSignature.</li>

<li>Jonathan Edwards <s34gull@#064mac.com> - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton <andrew@#064caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander <gl@#064bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.</li>

<li>Antoon Bosselaers <Antoon.Bosselaers@#064esat.kuleuven.ac.be> - help with RipeMD320 implementation.</li>

<li>Peter Sylvester <Peter.Sylvester@#064edelweb.fr> - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug <ummmmm@#064myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>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.</li>

<li>W.R. Dittmer <wdittmer@#064cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto <laperez@#064banxico.org.mx> - patch to use of BitString in X.500 name.</li>

<li>James Wright <James\_Wright@#064harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford <jim@#064muirford.com> - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler <haeusler@#064ponton-consulting.de> - extra aliases for provider.</li>

<li>Sai Pullabhotla <psai@#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

<li>Joseph Miller <joseph@#064digiweb.net.nz> - addition of ZeroBytePadding.</li>

<li>Lars <xyz@#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.</li>

<li>Jeroen van Vianen <jeroen@#064vanvianen.nl> - the Signed and Encrypted mail example.</li>

<li>Jun Sun <JSun@#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>

<li>Petr Dukem <pdukem@#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>

<li>Filipe Silva <filipe.silva@wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.</li>  
<li>Alpesh Parmar <alps@linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().</li>  
<li>Jay Gengelbach <jgengelbach@webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>  
<li>Doug <doug@tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.</li>  
<li>Matthew Mundy <mmundy1@umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>  
<li>Tom Cargill <cargill@profcon.com> - spelling patch in provider.</li>  
<li>Breitenstrom Christian <C.Breitenstrom@t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>  
<li>Zanotti Mirko <zanotti@cad.it> - patch to ordered equality test for X509Name.</li>  
<li>Nicola Scendoni <nscendoni@babelps.it> - patch to add sorting to CertPath validation.</li>  
<li>Ville Skytta <ville.skytta@iki.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.</li>  
<li>Bruce Gordon <bruce.gordon@savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>  
<li>Miles Whiteley <Miles.Whiteley@savvis.net> - "223" fix for BCPGInputStream new packets.</li>  
<li>Albert Moliner <amoliner@evintia.com> - initial TSP implementation.</li>  
<li>Carlos Lozano <carlos@evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>  
<li>Javier Delgadillo <javi@javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.</li>  
<li>Joni Hahkala <joni.hahkala@cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo.  
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<li>Rolf Schillinger <rolf@sir-wum.de> - initial implementation of Attribute Certificate generation.</li>  
<li>Sergey Bahtin <Sergey\_Bahtin@yahoo.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.</li>  
<li>Franck Leroy <Franck.Leroy@keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>  
<li>Atsuhiko Yamanaka <ymnk@jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>  
<li>Nickolay Bolshakov <tyrex@reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.</li>  
<li>Soren Hilmer <soren.hilmer@tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>  
<li>Steve Mitchell <mitchell@intertrust.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.</li>  
<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.</li>  
<li>Julien Pasquier <julienpasquier@free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>



<li>Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.</li>  
<li>Andrew Paterson <andrew.paterson@burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>  
<li>Vladimir Molotkov <vladimir.n.molotkov@intel.com>  
- extensive provider exception handling compliance testing.</li>  
<li>Florin Kollan <adlocflo@web.de> - fix to ElGamalKeyParameters equality testing.</li>  
<li>Pavel Vassiliev <paulvas@gmail.com> - Initial GOST28147Mac implementation.</li>  
<li>Tom Pesman <tom@tlinux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>  
<li>Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>  
<li>Arndt Hasch <Arndt.Hasch@maxence.de> - additional fix for partial reading with new style PGP packets.</li>  
<li>Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.</li>  
<li>David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>  
<li>Mike Dillon <md5@embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>  
<li>tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.</li>  
<li>Chris Schultz <cschultz@gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.</li>  
<li>David M. Lee <dmlee@Crossroads.com> - implementation assistance with streaming CMS classes.</li>  
<li>Joel Rees <rees@ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>  
<li>Francesc Sau <francesc.sau@partners.netfocus.es> - micro fix for tsp Accuracy class.</li>  
<li>Larry Bugbee <bugbee@mac.com> - initial ECNR implementation.</li>  
<li>Remi Blancher <Remi.Blancher@keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>  
<li>Brian O'Rourke <brianorourke@gmail.com> - patch for signature creation time override in OpenPGP.</li>  
<li>Andreas Schwier <andreas.schwier@cardcontact.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.</li>  
<li>David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.</li>  
<li>Kishimoto Kazuhiko <kazu-k@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>  
<li>Lawrence Tan <lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>  
<li>Carlos Valiente <superdupont@gmail.com> - Addition of CRL writing to the PEMWriter class.</li>  
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>  
<li>Olaf Keller, <olaf.keller.bc@bluewin.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.</li>  
<li>Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>  
<li>Karsten Ohme <widerstand@t-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@tradise.com> - patch for <ctrl> only handling in CRLFOutputStream.

- John Alfred Prufrock <j.a.prufrock@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

- Stefan Neusatz Guilhen <sneusatz@gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

- Marzio Lo Giudice <marzio.logiudice@gmail.com> - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.

- Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.

- Chris Viles <chris\_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.

- Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

- Lijun Liao <lijun.liao@rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.

- Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.

- Armin H&auml;berling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

- Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.

- Xavier Le Vourch <xavier@brittanysoftware.com> - general code clean ups.

- Erik Tews <e\_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding

- Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

- Frank Cornelis <info@frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

- Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

- David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader

- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.

- Olga

- K&auml;thler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

- <li>Germano Rizzo <germano.rizzo@#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
- <li>N&uacute;ria Mar&iacute; <numaa@#064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.</li>
- <li>Janis Schuller <js@#064tzi.de> - addition of NotationData packets for OpenPGP.</li>
- <li>Michael Samblanet <mike@#064samblanet.com> - patches towards improved Sun/default provider support in CMS.</li>
- <li>Mike StJohns <mstjohns@#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
- <li>Ramon Keller <ramon.keller@#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
- <li>Mark Nelson <mark@#064nbr.com>
  - correction to excluded DN in name constraints processing for PKIX processing.</li>
- <li>Eugene Golushkov <eugene\_gff@#064ukr.net> - mask fix to single byte read in TlsInputStream.</li>
- <li>Julien Pasquier <julienpasquier@#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
- <li>Peter Knopp <pknopp@#064mtg.de> - fix for named curve recognition in ECGOST key generation.</li>
- <li>Jakub Gwozdz <gwozdz@#064rpg.pl> - addition of getTsa() to TimestampTokenInfo.</li>
- <li>Bartosz Malkowski <bmalkow@#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
- <li>Tal Yacobi <tal.yacobi@#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
- <li>Massimiliano Ziccardi <massimiliano.ziccardi@#064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
- <li>Andrey Pavlenko <andrey.a.pavlenko@#064gmail.com>
  - security manager patch for PKCS1Encoding property check.</li>
- <li>Mike StJohns <mstjohns@#064comcast.net> - updates to KeyPurposeId</li>
- <li>J Ross Nicoll <jrn@#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
- <li>Matthew Stevenson <mavricknz@#064yahoo.com> - patch to construtor for CRMF CertSequence.</li>
- <li>Gabriele Contini <gcontini@#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
- <li>Roelof Naude <roelof.naude@#064epiuse.com> - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>
- <li>Patrick Peck <peck@#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
- <li>Michael LeMay <lemaymd@#064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
- <li>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]</li>
- <li>Michael Schoene <michael@#064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimestampResponse.validate().</li>
- <li>Ion Larra&ntilde;aga <ilarra@#064s21sec.com> fix to default partial packet generation in BCPGOutputStream.</li>
- <li>Bob Kerns <bob.kerns@#064positscience.com> fix to hashCode for X509CertificateObject.</li>
- <li>Stefan Meyer <stefan.meyer@#064ewe.de> backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
- <li>Robert J. Moore <Robert.J.Moore@#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.</li>

<li>Rui Hodai <ruir@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick <bouncycastle\_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit <cagdascirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri <harakiri\_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>  
<li>Lothar Kimminger <job@kimminger.de> verbose mode for ASN1Dump, support for DERExternal.</li>  
<li>Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.</li>  
<li>Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani <eromani@soegi.it> patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.</li>  
<li>Andreas Antener <antener\_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [BMA-42].</li>  
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<li>Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.</li>  
<li>Michael <emfau@t-online.de> correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.</li>  
<li>Markus Kil&aring;s <markus@primekey.se> several enhancements to TimeStampResponseGenerator.</li>  
<li>Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.</li>  
<li>Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>  
<li>Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.</li>  
<li>Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [BJA-291].</li>  
<li>Wayne Grant <waynedgrant@gmail.com> additional OIDs for PKCS10 and certificate generation support.</li>  
<li>Frank Cornelis <info@frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.</li>  
<li>Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.</li>

<li>Bob McGowan <boab.mcgoo@btinternet.com> patch to support different content and mgf digests in PSS signing.</li>

<li>Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.</li>

<li>Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.</li>

<li>Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.</li>

<li>Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.</li>

<li>Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.</li>

<li>Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.</li>

<li>Janusz Sikociski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.</li>

<li>Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.</li>

<li>Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.</li>

<li>Shawn Willden <swillden@google.com> additional functionality to PGPKKeyRing.</li>

<li>Atanas Krachev <akrachev@gmail.com> added support for revocation signatures in OpenPGP.</li>

<li>Mickael Laiking <mickael.laiking@keynectis.com> initial cut of EAC classes.</li>

<li>Tim Buktu <tbuktu@hotmail.com> Initial implementation of NTRU signing and encryption.</li>

<li>Bernd <rbernd@gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>

<li>Steing Inge Morisbak <stein.inge.morisbak@BEKK.no> Test code for lower case Hex data in PEM headers.</li>

<li>Andreas Schmid <andreas.schmid@tngtech.com> Additional expiry time check in PGPPublicKeys.</li>

<li>Phil Steitz <phil.steitz@gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>

<li>Ignat Korchagin <ignat.korchagin@gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>

<li>Petar Petrov <p.petrov@bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>

<li>Daniel Fitzpatrick <daniel.f.nwr@gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>

<li>Andy Neilson <Andy.Neilson@quest.com>a further patches to deal with multiple providers and PEMReader.</li>

<li>Ted Shaw <xiao.xj@gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>

<li>Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vz12Lv2EUVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>

<li>Kenny Root <kenny@the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>

<li>Maarten Bodewes <maarten.bodewes@gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

<li>Philip Clay <pilf\_b@yahoo.com> Initial implementation of J-PAKE.</li>

<li>Brian Carlstrom <bdc@carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>

<li>Samuel Lidn Borell <samuel@primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>

<li>Sergio Demian Lerner <sergiolerner@certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington <Tim.Whittington@orionhealth.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@primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.
- Andrey Zhozhin <zhozhin@xrm.ru> patch for override of TSP SignerInfo attributes.
- Sergey Tiunov <t5555d@gmail.com> initial cut of DVCS classes.
- Damian Kolasa <fatfredy@gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
- Ash Hughes <ashley.hughes@blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
- Daniel Hirscher <dev@daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.
- Daniele Ricci <daniele.athome@gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.
- Matti Aarnio <matti.aarnio@methics.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@akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.
- Eric Mueller <eric.mueller@sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts <Mathias.Herberts@gmail.com> fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov <daniil.ivanov@gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso <daniele.grasso86@gmail.com> contributions to final Key calculation code for SRP6.
- Andrey Utkin <cindrhc@gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu <arnis@ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.
- Roberto Tyley <> further work on completing gradle build.
- Waldemar Dick <wdick@devmue.de> code improvement in x500 ASN.1 package.
- Sid Steward <sid.steward@pdfllabs.com> code improvements to ASN1Boolean.
- Alex Klyubin <klyubin@google.com> AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <gsoc.student@gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter <andreas.reiter@iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <kieran.miller@gmail.com> initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli <ehli@arago.de> Additional support for BSI plain ECDSA in the provider.

<li>Daniel Heldt<Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests</li>  
<li>Robert Bushman <bouncycastle@traxel.com> Clean up of DirectKeySignature example.</li>  
<li>Maurice Aarts<aarts@riscure.com> updated to KDF generator to follow NIST SP 800-108.</li>  
<li>Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.</li>  
<li>KB Sriram<mail\_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>  
<li>Marco Schulze<marco@nightlabs.de> Reported verification bug in GenericSigner.</li>  
<li>Martin Schaef<https://github.com/martinschaef> contributed a code-cleanup patch.</li>  
<li>Lijun Liao<ljun.liao@gmail.com> addition of getSignatureAlgorithmID to BasicOCSPResp.</li>  
<li>dstutz<https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>  
<li>Tobias Wich<tobias.wich@ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrtens<hauke@hauke-m.de> TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman<dmz@galois.com> Further key quality improvements to RSAKeyPairGenerator.</li>  
<li>Jens Kapitzas<lj.kapitzas@schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>  
<li>Johan Eklund<johan@primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.</li>  
<li>nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>  
<li>Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>  
<li>Derek Atkins <derek@ihftf.com> Documentation fixes to X9ObjectIdentifiers.</li>  
<li>Peter Jr Halicky <peto@halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>  
<li>IartiguePierre<https://github.com/IartiguePierre> Fix for counter signature SID in CMSSignedData.</li>  
<li>Thomas Belot<thomas.belot+BC@gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.</li>  
<li>Rich DiCrocce<https://github.com/rdicrocce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>  
<li>Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).</li>  
<li>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.</li>  
<li>Michael <MSKnete@web.de> initial fix for bitStrength issue for OpenPGP EC keys.</li>  
<li>Tobias Wagner <tobias.wagner@n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>  
<li>Sergio Giro <sgiro@google.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.</li>  
<li>bschuetter<https://github.com/bschuetter> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>  
<li>Leonard Dallot<https://github.com/dallotTazTag> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>  
<li>Jan Willem Janssen <j.w.janssen+bouncycastle@xtreme.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@gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles <benoit.charles@opentrust.com> Fix for IES data length check on decryption.
- Niko <nfink95@gmail.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 variant keys.
- Matthias Edelhoff <Matthias.Edelhoff@cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat <lukasz.deputat@gmail.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.
- Andr e 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@gmail.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.

</ul>  
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## 1.45 openssl 1.0.2l

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\*

\* curve25519-donna: Curve25519 elliptic curve, public key function

\*

\* <http://code.google.com/p/curve25519-donna/>

\*

\* Adam Langley <[agl@imperialviolet.org](mailto:agl@imperialviolet.org)>

\*

\* Derived from public domain C code by Daniel J. Bernstein <[djb@cr.yp.to](mailto: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.
- \*/

## 1.47 commons-beanutils 1.9.3

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## 1.54 castor-xml 1.3.1

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## 1.55 glibc 2.24

## 1.56 zlib 1.2.8

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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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# 1.57 ezmorph 1.0.6

## 1.58 stunnel 4.56

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Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

University of Illinois at Urbana-Champaign

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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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# 1.65 libxcursor 1.1.15-1.el7

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# 1.66 clang 6.0.1-2.el7

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```
; 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
    %S1163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248

CF248:                                ; preds = %CF248, %CF246
    store i8 %S1163, 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 -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
```

```
FileCheck %s
```

; 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: vpadd (%rsi), %ymm0, %ymm0
```

```
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
```

```
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
```

```
; CHECK-NEXT: vmovdqa %ymm0, (%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: vpadd (%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
```





```

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 (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vmovdqa %ymm0, (%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 %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpshufd { {. *#+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %ymm1, %ymm0, %ymm0
; 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>
%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>
%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>
%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: vpadd %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: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
;
CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpsltd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %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>
%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>
%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: vpadd %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 %ymm1, %ymm0, %ymm0
; CHECK-NEXT:   vpshufd { {. *#+ } } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:   vpaddd %ymm1, %ymm0, %ymm0
; 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>
%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 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: vpaddq %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: vpaddq %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpaddq %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd { {. *#+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddq %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpshufd { {. *#+} } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddq %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>
%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: vcvt dq2ps %ymm0, %ymm0

```

```

; CHECK-NEXT: vpmovm2d %k0, %ymm1

```

```

; CHECK-NEXT: vcvt dq2ps %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:  vcvt dq2ps %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:  vcvt dq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
;
; CHECK-NEXT:  vcvt dq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvt dq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvt dq2pd %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-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-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],ym
m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[
31]
; CHECK-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-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-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-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-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT:  vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT:  vpackuswb %ymm4, %ymm0, %ymm0
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm2 =
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],ymm
0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
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],ymm
0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT:  vpmullw %ymm2, %ymm4, %ymm2
; CHECK-NEXT:  vpand %ymm5, %ymm2, %ymm2
; CHECK-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-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-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT:  vpackuswb %ymm2, %ymm1, %ymm1
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-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-LABEL: mul512:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0

```

```

; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-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-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-NEXT: vmullw %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vmovdqa64 {{.*#+}} zmm3 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,
55,255,255,255,255,255]
; CHECK-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-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-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-NEXT: vmullw %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-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
}

```

=====

LLVM Release License

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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| -----      | -----     |
| <none yet> |           |

```
; 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 7 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 7 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 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 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 24 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 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 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 24 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 24 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
}

```

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-----

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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* %lsrc.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20:                                ; preds = %exit
%2 = bitcast %struct.0* %lsrc.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2:                                    ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsrc.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
```

```
}
```

```
# 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
```

```
# the individual or the individual's organization has agreed to
```

```
# the appropriate Contributor License Agreement, found here:
```

```
#
```

```
# 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>
```

```
#
```

```
# Please keep the list sorted.
```

```
Albert Pretorius <pretoalb@gmail.com>
```

```
Arne Beer <arne@twobeer.de>
```

```
Billy
```

Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>  
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>  
Christopher Seymour <chris.j.seymour@hotmail.com>  
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>  
Deniz Evrenci <denizevrenci@gmail.com>  
Dominic Hamon <dma@stripysock.com> <dominic@google.com>  
Dominik Czarnota <dominik.b.czarnota@gmail.com>  
Eric Fiselier <eric@efcs.ca>  
Eugene Zhuk <eugene.zhuk@gmail.com>  
Evgeny Safronov <division494@gmail.com>  
Felix Homann <linuxaudio@showlabor.de>  
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>  
Jern-Kuan Leong <jernkuan@gmail.com>  
JianXiong Zhou <zhoujianxiong2@gmail.com>  
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>  
John Millikin <jmillikin@stripe.com>  
Jussi Knuutila <jussi.knuutila@gmail.com>  
Kai Wolf <kai.wolf@gmail.com>  
Kishan Kumar <kumar.kishan@outlook.com>  
Kaito Udagawa <umireon@gmail.com>  
Lei Xu <eddyxu@gmail.com>  
Matt Clarkson <mattyclarkson@gmail.com>  
Maxim Vafin <maxvafin@gmail.com>  
Nick Hutchinson  
<nshutchinson@gmail.com>  
Oleksandr Sochka <sasha.sochka@gmail.com>  
Pascal Leroy <phl@google.com>  
Paul Redmond <paul.redmond@gmail.com>  
Pierre Phaneuf <pphaneuf@google.com>  
Radoslav Yovchev <radoslav.tm@gmail.com>  
Raul Marin <rmrodriguez@cartodb.com>  
Ray Glover <ray.glover@uk.ibm.com>  
Robert Guo <robert.guo@mongodb.com>  
Roman Lebedev <lebedev.ri@gmail.com>  
Shuo Chen <chenshuo@chenshuo.com>  
Tobias Ulvgrd <tobias.ulvgard@dirac.se>  
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>  
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Zbigniew Skowron <zbychs@gmail.com>  
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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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=====

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Developed by:

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LLVM System Interface Library

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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 0xL00000000000000000800000000000000, %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
}
```

## 1.67 gtk 3.22.30-3.el7

## 1.68 libmng 1.0.10

### 1.68.1 Available under license :

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Version 2.1, February 1999

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## 1.70 opus 1.1

## 1.71 jansson 2.9

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## 1.72 libsamplerate 0.1.7

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## 1.75 iperf 2.0.4

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Iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

University of Illinois at Urbana-Champaign

<http://www.ncsa.uiuc.edu>

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base64.cpp and base64.h

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```
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```

```
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the Free Software Foundation; either version 2 of
```

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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 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
```

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## 1.78 libjpeg 6b

## 1.78.1 Notifications :

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## 1.78.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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

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

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

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

### DOCUMENTATION ROADMAP

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info

as usage.doc).

wizard.doc      Advanced usage instructions for JPEG wizards only.

change.log      Version-to-version change highlights.

Programmer and internal documentation:

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

example.c       Sample code for calling the JPEG library.

structure.doc   Overview of the JPEG library's internal structure.

filelist.doc    Road map of IJG files.

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

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

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

## OVERVIEW

=====

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

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

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



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

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software.

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

We are required to state that

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## REFERENCES

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

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

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T

Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

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

The JPEG standard itself is not available electronically; you must order a

paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

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

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>.

The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2

(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

## ARCHIVE LOCATIONS

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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

obtain them on Internet.

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

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

## FILE FORMAT WARS

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

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

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

(In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

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## 1.80 busybox 1.21.0

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.81 curl 7.26.0

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would  
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x095840@ti.com.

Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody  
Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu  
Seth Forshee  
Ivan Gomez Castellanos  
Mark Grosen  
Ramesh Gupta G  
Fernando Guzman Lugo  
Axel Haslam  
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Andy Shevchenko

Jeff Taylor

Roman Tereshonkov

Armando Uribe de Leon

Nischal Varide

Wenbiao Wang

/\* 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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\*

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\*

\* M. Welsh, 6 July 1996

\*

\*

\*/

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<para>  
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in the various original documents,

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<sect1 id="fdl-using">

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```

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</para>
</sect1>
</appendix>
```

```
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#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
{
return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
```

```
#endif
```

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```
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
```

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@novacompt.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

Steve Brown <sbrown@cortland.com>  
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

Andreas Oberritter  
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

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for adding support for Typhoon DVB-S budget card

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for tuning/DiSEqC support for the DEC 3000-s

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for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

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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  
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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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\* beer in return. Poul-Henning Kamp

b) snprintf replacement

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-----
$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _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 *, nfd_t, int);
#endif /* !_COMPAT_POLL_H */
#endif /* !HAVE_POLL_H */
/*
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*
*/

#ifdef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifdef 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

```

## 1.84 also 1.0.25



## 1.84.1 Available under license :

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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](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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```
<p>
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```
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example would be a fine way to ensure that you
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<!--#include file="footer.html" -->
```

## 1.94 busybox 1.23.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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Julian Seward, Cambridge, UK.  
jseward@bzip.org  
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# 1.96 libjpeg 8b

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README for release 9c of 14-Jan-2018

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### DOCUMENTATION ROADMAP

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This file contains the following sections:

- OVERVIEW        General description of JPEG and the IJG software.
- LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.
- REFERENCES     Where to learn more about JPEG.
- ARCHIVE LOCATIONS Where to find newer versions of this software.
- 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.  
coderrules.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

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

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

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

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

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

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The 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](http://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](http://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](mailto:mail-server@rtfm.mit.edu) with body  
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## ACKNOWLEDGMENTS

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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.

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#### FILE FORMAT WARS

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

(see REFERENCES).

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

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

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

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

Furthermore,

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

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

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TO DO

=====

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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](mailto:jpeg-info@jpegclub.org).

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## 1.98 commons-http-client 2.0.2

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```

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```
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```

The hypothetical commands

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```
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```

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

```
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## 1.104 mongoose 3.1

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# 1.105 openssl 1.1.1c

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- \*
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- \*
- \* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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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 *, nfd_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

```



# 1.107 unzip 6.00

## 1.107.1 Available under license :

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---

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-----

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

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\*

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\*

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

# 1.108 libsrtp 3.2

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 */
```

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## 1.111 glib 2.0.0.2800.8

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Upstream Authors:

John Gray <gray@agora-net.com>  
Andrea Campi <a.campi@inet.it>  
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## 1.114 netbsd-resolv 2.13

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@subheading END OF TERMS AND CONDITIONS

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@var{one line to give the library's name and an idea of what it does.}

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@page

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and a brief idea of what it does.}

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```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{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.
@end smallexample
```

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

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user 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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7. You may place library facilities that are a work based on the

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Version 3, 29 June 2007

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## 1.124 direct-fb 1.4.5

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## 1.126 ncurses 5.7

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Benoit Sigoure <tsuna@google.com>  
Bogdan Piloca <boo@google.com>  
Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>  
Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen  
Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotr@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
Zhanyong Wan <wan@google.com>

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Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>

Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston  
Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean McAfee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Zhanyong Wan <wan@google.com>

# 1.133 tdb unknown

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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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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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## 1.136 sysv-init unknown

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## 1.137 libusb 1.0

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Version 2.1, February 1999

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

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.

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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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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

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# 1.138 libsrtp 3.2

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```

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## 1.140 libusb 1.0

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Version 2.1, February 1999

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2006-Jan-27

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docs/FTL.TXT
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#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.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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src/cg/cst_mjpg.c
src/cg/cst_mlsa.h
src/cg/cst_mlsa.c
src/cg/cst_vc.h
src/cg/cst_vc.c
/*****
/*
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```

src/audio/au_wince.c
src/utls/cst_file_stdio.c
src/utls/cst_mmap_posix.c
src/utls/cst_mmap_win32.c
src/utls/cst_mmap_none.c
src/utls/cst_file_wince.c
sapi/

```

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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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```

configure.sub

config.guess

missing

install-sh

mkinstalldirs

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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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```

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```
lang/cmu_grapheme_lex/grapheme_unitran_tables.c
```

```
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```

```
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```

```
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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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Upstream Authors:

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Andrea Campi <a.campi@inet.it>  
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## 1.145 bridgeutils 1.5

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## 1.147 bluez 4.101

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## 1.148 pcre 8.35

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Written by: Philip Hazel  
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## 1.149 libgpg-error 1.18

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# 1.150 procps 3.2.8

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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 a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software 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 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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(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.

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That's all there is to it!

## 1.151 wpa-supPLICANT 2.1-devel

### 1.151.1 Available under license :

wpa\_supPLICANT and hostapd  
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## 1.152 glib 2.28.8

# 1.153 uclibc unknown

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Version 2.1, February 1999

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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 "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



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

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

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

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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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- 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,

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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This option is useful when you wish to copy part of the code of

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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.

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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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containing that work also fall under Section 6,

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

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

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

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

/\*

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\*

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\* the end user to modify and rebuild the library and use it in  
\* conjunction with the program executable.  
\*/  
/\* \_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.

## 1.154 direct-fb unknown

### 1.154.1 Available under license :

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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.]

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

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

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

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

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for

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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



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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.

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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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

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

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
<http://www.lua.org/>
- o OpenSSL: Cryptographic library. OpenSSL is used by service detection

and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.

<http://www.openssl.org/>

o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

o libsvn. The Subversion library, used by the updater program

`nmap-update`. <http://subversion.apache.org/>

o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory `mswin32/winpcap`.

<http://www.winpcap.org/>

Certain Nmap Scripting Engine scripts use the simplified BSD license in `licenses/BSD-simplified`.

Zenmap and Ndiff require:

o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either `py2exe` or `py2app`.

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o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file `licenses/LGPL-2`.

<http://www.gtk.org/>

o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files `licenses/LGPL-2.1` and `licenses/MPL-1.1`.

<http://www.cairographics.org/>

o libgailutil: Accessibility support for GTK+.

o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>

o zlib and bzip2: compression libraries.

<http://www.zlib.org/> <http://www.bzip.org/>

o Expat: XML parser library.

<http://expat.sourceforge.net/>

o fontconfig: font configuration library.

<http://www.fontconfig.org/>

o FreeType: font rendering library.

<http://www.freetype.org/>

o libiconv. Under the GNU LGPL 2.

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o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.

<http://www.gnu.org/software/gettext/>

- o libxml2: XML parsing library.  
<http://xmlsoft.org/>
- o SQLite.  
<http://www.sqlite.org/>
- o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.  
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- o Various X.org libraries. These were built using MacPorts.  
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## THE BASIC LIBRARY FUNCTIONS

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Written



by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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--- end of FTL.TXT ---

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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.

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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.

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## 1.158 glibc 2.20

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## 1.159 tcpdump 4.1.1

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## 1.160 curl 7.26.0

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License Mixing

=====

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## 1.162 linux-kernel 3.2.0



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## 1.163 dnsmasq 2.78

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## 1.164 shadow 4.2.1

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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## 1.169 icu 53

### 1.169.1 Available under license :

```
## *-makefile-*  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
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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
```

# 1.170 dnsmasq 2.46

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Version 2, June 1991

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```
</pre>
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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/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
```

```
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
EOF
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```
Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
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Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
```

Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
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include/GL/gl.h :

Mesa 3-D  
graphics library

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include/GL/glexth.h  
include/GL/glxext.h  
include/GL/wglxext.h :

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## jopt-simple v5.0.4

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```
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```

```
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```

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Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
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Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
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Markus Heule <markus.heule@gmail.com>  
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Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
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Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
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Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
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```
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```

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

#####

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## jopt-simple v5.0.4

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## Independent JPEG Group: JPEG release 6b

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

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# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
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#
.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
#
#
EOF
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Java HTML Tidy - JTidy  
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Contributing Author(s):

Dave Raggett <dsr@w3.org>  
Andy Quick <ac.quick@sympatico.ca> (translation to Java)  
Gary L Peskin <garyp@firstech.com> (Java development)  
Sami Lempinen <sami@lempinen.net> (release management)

The contributing author(s) would like to thank all those who helped with testing, bug fixes, and patience. This wouldn't have been possible without all of you.

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```
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```

```
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Benoit Sigoure <tsuna@google.com>  
Bogdan Pilocu <boo@google.com>  
Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>  
Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>

Nermin Ozkiranartli <nermin@google.com>  
Owen  
Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotrk@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
Zhanyong Wan <wan@google.com>  
# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston  
Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean McAfee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>



Vadim Berman <vadimb@google.com>

Vlad Losev <vladl@google.com>

Zhanyong Wan <wan@google.com>

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 \* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
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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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\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/drmtest.c  
\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/updatedraw.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):

\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmHash.c

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\* Authors:

\* Chris Wilson <chris@chris-wilson.co.uk>

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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86atomic.h

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\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/nouveau/nouveau\_reloc.c

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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

\*

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\*

\* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number  
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\*

\* [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  
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\* CPUs". Dr. Dobbs'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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\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmRandom.c

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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel_bufmgr_fake.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>  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/radeon\_drm.h  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/vbltest/vbltest.c  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/gem\_basic.c
- \*

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fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/tests/gem\_readwrite.c

- \* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
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/\* drmstat.c -- DRM device status and testing program

- \* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com

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\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/drm.h

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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/sis\_drm.h  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/radeon/radeon\_cs\_gem.c

\* /opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-

archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/radeon/radeon\_bo.h

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AC\_PREREQ(2.60)

AC\_INIT([libdrm], 2.4.23, [dri-devel@lists.sourceforge.net], libdrm)

AC\_USE\_SYSTEM\_EXTENSIONS

AC\_CONFIG\_SRCDIR([Makefile.am])

AM\_INIT\_AUTOMAKE([dist-bzip2])

AM\_CONFIG\_HEADER([config.h])

AC\_DISABLE\_STATIC

AC\_PROG\_LIBTOOL

AC\_PROG\_CC

```
AC_HEADER_STDC
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA
```

```
# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes]])])
```

```
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(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(nouveau-experimental-api,
  AS_HELP_STRING([--enable-nouveau-experimental-api],
  [Enable support for nouveau's experimental API (default: disabled)]),
  [NOUVEAU=$enableval], [NOUVEAU=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])
```

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  
\br/>-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 -Wunsafe-loop-optimizations \  
-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

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"; then
# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives,
[
drm_cv_atomic_primitives="none"

AC_TRY_LINK([
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

else
    if test "x$INTEL" != "xno"; then
        INTEL=yes
    fi
    if test "x$RADEON" != "xno"; then
        RADEON=yes
    fi
fi
fi

AM_CONDITIONAL(HAVE_INTEL, [test "x$INTEL" != "xno"])
AM_CONDITIONAL(HAVE_RADEON, [test "x$RADEON" != "xno"])

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_OUTPUT([
Makefile
libkms/Makefile
libkms/libkms.pc

```

```
intel/Makefile
intel/libdrm_intel.pc
radeon/Makefile
radeon/libdrm_radeon.pc
nouveau/Makefile
nouveau/libdrm_nouveau.pc
tests/Makefile
tests/modeprint/Makefile
tests/modetest/Makefile
tests/kmstest/Makefile
tests/vbltest/Makefile
include/Makefile
include/drm/Makefile
libdrm.pc])
```

```
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 ""
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1046344265_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/configure.ac
```

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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/intel/intel\_bufmgr\_gem.c  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/include/drm/Makefile  
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archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/libdrm\_lists.h  
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/\* xf86drmSL.c -- Skip list support  
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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):

\*/opt/ws\_local/PERMITS\_SQL/1046344265\_1590604830.21/0/libdrm-2.4.23-1.el6-1.src.rpm-cosi-expand-  
archive-fZk7GSet/libdrm-2.4.23.tar.bz2-cosi-expand-archive-OdN83yGs/libdrm-2.4.23/xf86drmSL.c

# 1.192 libcap 2.19

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## 1.193 u-boot 2011.06bcm2

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 \*  
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 \* /opt/ws\_local/PERMITS\_SQL/1068640137\_1595345792.71/0/json-lib-2-4-sources-

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jar/net/sf/json/JSONArray.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-
jar/net/sf/json/groovy/JsonGroovyBuilder.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsonBeanProcessorMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-
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jar/net/sf/json/processors/PropertyNameProcessorMatcher.java
* /opt/ws_local/PERMITS_SQL/1068640137_1595345792.71/0/json-lib-2-4-sources-
jar/net/sf/json/groovy/JsonSlurper.java

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* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPOutputStream.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPInputStream.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPHeader.java
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* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InflaterInputStream.java
*
/opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Checksum.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZInputStream.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/CRC32.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-
jar/com/jcraft/jzlib/DeflaterOutputStream.java
* /opt/cola/permits/1116565042_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZOutputStream.java
```

\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/GZIPException.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/JZlib.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflater.java  
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\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfCodes.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Tree.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/StaticTree.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStreamException.java  
\* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/InfTree.java  
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- \* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Deflate.java
- \* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/ZStream.java
- \* /opt/cola/permits/1116565042\_1613145674.08/0/jzlib-1-1-3-sources-jar/com/jcraft/jzlib/Inflate.java

# 1.197 berkeley-db 4.7.25

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# 1.198 openjdk 11.0.7u11

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```
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### xwd utility
<pre>
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```

```
Benoit Sigoure <tsuna@google.com>
```

```
Bogdan Pilocca <boo@google.com>
```

```
Chandler Carruth <chandlerc@google.com>
```

```
Dave MacLachlan <dmaclach@gmail.com>
```

```
David Anderson <danderson@google.com>
```

```
Dean Sturtevant
```

```
Gene Volovich <gv@cite.com>
```

```
Hal Burch <gmock@hburch.com>
```

```
Jeffrey Yasskin <jyasskin@google.com>
```

Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kostya Serebryany <kcc@google.com>  
Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen  
Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotrk@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Wolfgang Klier <wklier@google.com>  
Zhanyong Wan <wan@google.com>  
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Pasi Valminen <pasi.valminen@gmail.com>  
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|                | GL/gltext.h        | Khronos        |
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```
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include/GL/glxext.h
include/GL/wglxext.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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## jopt-simple v5.0.4

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Version 2.1, February 1999

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a

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## 1.204 linux-kernel 3.0.31

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>

AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <krxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would  
like to be mentioned)

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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.

Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody  
Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu  
Seth Forshee  
Ivan Gomez Castellanos  
Mark Groesen  
Ramesh Gupta G  
Fernando Guzman Lugo  
Axel Haslam  
Janet Head  
Shivananda Hebbar  
Hari Kanigeri  
Tony Lindgren  
Antonio Luna  
Hari Nagalla  
Nishanth Menon  
Ameya Palande  
Vijay Pasam

Gilbert Pitney  
Omar Ramirez Luna  
Ernesto Ramos  
Chris Ring  
Larry Schiefer  
Rebecca Schultz Zavin  
Bhavin Shah  
Andy Shevchenko  
Jeff Taylor  
Roman Tereshonkov  
Armando Uribe de Leon  
Nischal Varide  
Wenbiao Wang

/\* 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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(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

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single nxt200x frontend driver.

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>

AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>

Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>

Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>

Ragnar Hojland Espinosa <ragnar@macula.net>

ConferenceTV card

+ 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.

Please keep the following list in alphabetical order.

Suman Anna

Sripal Bagadia

Felipe Balbi

Ohad Ben-Cohen

Phil Carmody

Deepak Chitriki

Felipe Contreras

Hiroshi Doyu

Seth Forshee

Ivan Gomez Castellanos

Mark Grosen

Ramesh Gupta G

Fernando Guzman Lugo

Axel Haslam

Janet Head

Shivananda Hebbar

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Ameya Palande

Vijay Pasam

Gilbert Pitney

Omar Ramirez Luna

Ernesto Ramos

Chris Ring

Larry Schiefer

Rebecca Schultz Zavin

Bhavin Shah

Andy Shevchenko

Jeff Taylor

Roman Tereshonkov

Armando Uribe de Leon

Nischal Varide

Wenbiao Wang

/\* 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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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Andreas Oberritter

<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

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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.

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## 1.207 linux-kernel 3.16.38

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody  
Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu  
Seth Forshee  
Ivan Gomez Castellanos  
Mark Grosen  
Ramesh Gupta G  
Fernando Guzman Lugo  
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Jeff Taylor  
Roman Tereshonkov  
Armando Uribe de Leon  
Nischal Varide  
Wenbiao Wang  
/\* nicstar.c v0.22 Jawaid Bazyar ([bazyar@hypermall.com](mailto:bazyar@hypermall.com))  
\* nicstar.c, M. Welsh ([matt.welsh@cl.cam.ac.uk](mailto: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 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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Andreas Oberritter  
<obi@linuxtv.org>  
Dennis Noermann <dennis.noermann@noernet.de>  
Felix Domke <tmbinc@elitedvb.net>  
Florian Schirmer <jolt@tuxbox.org>  
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for the nxt2004 frontend driver

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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  
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QLogic Linux FC-FCoE Driver

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# 1.208 linux-kernel 2.6.19

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@redhat.com>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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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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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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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  
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for his LIRC infrared handler

Andreas Oberritter  
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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for the nxt2004 frontend driver

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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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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ 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.

Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody

Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu  
Seth Forshee  
Ivan Gomez Castellanos  
Mark Grosen  
Ramesh Gupta G  
Fernando Guzman Lugo  
Axel Haslam  
Janet Head  
Shivananda Hebbar  
Hari Kanigeri  
Tony Lindgren  
Antonio Luna  
Hari Nagalla  
Nishanth Menon  
Ameya Palande  
Vijay Pasam  
Gilbert Pitney  
Omar Ramirez Luna  
Ernesto Ramos  
Chris Ring  
Larry Schiefer  
Rebecca Schultz Zavin  
Bhavin Shah  
Andy Shevchenko  
Jeff Taylor  
Roman Tereshonkov  
Armando Uribe de Leon  
Nischal Varide  
Wenbiao Wang

/\* 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 contributions to the dvb-net 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  
procedure and CyberLogin is no longer used.)

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Andreas Oberritter  
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

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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.

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## 1.210 linux-kernel 3.4.110

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody  
Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu

Seth Forshee  
Ivan Gomez Castellanos  
Mark Grosen  
Ramesh Gupta G  
Fernando Guzman Lugo  
Axel Haslam  
Janet Head  
Shivananda Hebbar  
Hari Kanigeri  
Tony Lindgren  
Antonio Luna  
Hari Nagalla  
Nishanth Menon  
Ameya Palande  
Vijay Pasam  
Gilbert Pitney  
Omar Ramirez Luna  
Ernesto Ramos  
Chris Ring  
Larry Schiefer  
Rebecca Schultz Zavin  
Bhavin Shah  
Andy Shevchenko  
Jeff Taylor  
Roman Tereshonkov  
Armando Uribe de Leon  
Nischal Varide  
Wenbiao Wang

/\* 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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Andreas Oberritter  
<obi@linuxtv.org>

Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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for merging the nxt2002 and nxt2004 modules into a  
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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com

- Initiated the project;
- setup the project infrastructure (CVS, web page, etc.);
- early prototype routines.

Ross Johnson rpj at callisto dot canberra dot edu dot au

- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

Robert

Colquhoun rjc at trump dot net dot au

- Early bug fixes.

John E. Bossom John dot Bossom at cognos dot com

- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

Anders Norlander anorland at hem2 dot passagen dot se

- Early enhancements and runtime checking for supported Win32 routines.

Tor Lillqvist tml at iki dot fi

- General enhancements;
- early bug fixes to condition variables.

Scott Lightner scott at curriculum dot com

- Bug fix.

Kevin Ruland Kevin dot Ruland at anheuser-busch dot com

- Various bug fixes.

Mike Russo miker at eai dot com

- Bug fix.

Mark E. Armstrong avail at pacbell dot net

- Bug fixes.

Lorin Hochstein lmh at xiphos dot ca

- general bug fixes; bug fixes to condition variables.

Peter Slacik Peter dot Slacik at tatramed dot sk

- Bug fixes.

Mumit Khan khan at xraylith dot wisc dot edu

- Fixes to work with Mingw32.

Milan Gardian mg



at tatramed dot sk

Bug fixes and reports/analyses of obscure problems.

Aurelio Medina aureliom at crt dot com

First implementation of read-write locks.

Graham Dumpleton Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au

Bug fix in condition variables.

Tristan Savatier tristan at mpegv dot com

WinCE port.

Erik Hensema erik at hensema dot xs4all dot nl

Bug fixes.

Rich Peters rpeters at micro-magic dot com

Todd Owen towen at lucidcalm dot dropbear dot id dot au

Bug fixes to dll loading.

Jason Nye jnye at nbnet dot nb dot ca

Implementation of async cancelation.

Fred Forester fforest at eticomm dot net

Kevin D. Clark kclark at cabletron dot com

David Baggett dmb at itasoftware dot com

Bug fixes.

Paul Redondo paul at matchvision dot com

Scott McCaskill scott at 3dfx dot com

Bug fixes.

Jef Gearhart jgearhart at tpssys dot com

Bug fix.

Arthur Kantor akantor at bexusa dot com

Mutex enhancements.

Steven

Reddie smr at essemmer dot com dot au

Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com

Re-implemented and improved read-write locks;

(with Louis Thomas) re-implemented and improved  
condition variables;

enhancements to semaphores;

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.

Thomas Pfaff tpfaff at gmx dot net

Changes to make C version usable with C++ applications;

re-implemented mutex routines to avoid Win32 mutexes  
and TryEnterCriticalSection;

procedure to fix Mingw32 thread-safety issues.

Franco Bez franco dot bez at gmx dot de

procedure to fix Mingw32 thread-safety issues.

Louis Thomas lthomas at arbitrade dot com

(with Alexander Terekhov) re-implemented and improved condition variables.

David Korn dgk at research dot att dot com  
Ported to UWIN.

Phil Frisbie, Jr. phil at hawksoft dot com  
Bug fix.

Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de  
Bug fix.

prionx at junodotcom prionx at junodotcom  
Bug fixes.

Max Woodbury mtew at cds dot duke dot edu  
POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically linked image sizes.

Rob Fanner rfanner at stonethree dot com  
Bug fix.

Michael Johnson michaelj at maine dot rr dot com  
Bug fix.

Nicolas Barry boozai at yahoo dot com  
Bug fixes.

Piet van Bruggen pietvb at newbridges dot nl  
Bug fix.

Makoto Kato raven at oldskool dot jp  
AMD64 port.

Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr  
Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible.

Will Bryant will dot bryant at ecosm dot com  
Borland compiler patch and makefile.

Anuj Goyal anuj dot goyal at gmail dot com  
Port to Digital Mars compiler.

Gottlob Frege gottlobfrege at gmail dot com  
re-implemented pthread\_once (version 2)  
(pthread\_once cancellation added by rpj).

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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Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
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Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
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Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
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Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer  
Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean Mcafee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
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Vlad Losev <vladl@google.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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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?

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inline

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Comment UniqueID 43053

Comment VMusage 14482 68586

FontName Helvetica-BoldOblique

FullName Helvetica Bold Oblique

FamilyName Helvetica

Weight Bold

ItalicAngle -12

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -174 -228 1114 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718

Descender -207

StdHW 118

StdVW 140

StartCharMetrics 315

C 32 ; WX 278 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 94 0 397 718 ;

C 34 ; WX 474 ; N quotedbl ; B 193 447 529 718 ;

C

35 ; WX 556 ; N numbersign ; B 60 0 644 698 ;

C 36 ; WX 556 ; N dollar ; B 67 -115 622 775 ;

C 37 ; WX 889 ; N percent ; B 136 -19 901 710 ;

C 38 ; WX 722 ; N ampersand ; B 89 -19 732 718 ;

C 39 ; WX 278 ; N quoteright ; B 167 445 362 718 ;

C 40 ; WX 333 ; N parenleft ; B 76 -208 470 734 ;

C 41 ; WX 333 ; N parenright ; B -25 -208 369 734 ;

C 42 ; WX 389 ; N asterisk ; B 146 387 481 718 ;

C 43 ; WX 584 ; N plus ; B 82 0 610 506 ;

C 44 ; WX 278 ; N comma ; B 28 -168 245 146 ;  
C 45 ; WX 333 ; N hyphen ; B 73 215 379 345 ;  
C 46 ; WX 278 ; N period ; B 64 0 245 146 ;  
C 47 ; WX 278 ; N slash ; B -37 -19 468 737 ;  
C 48 ; WX 556 ; N zero ; B 86 -19 617 710 ;  
C 49 ; WX 556 ; N one ; B 173 0 529 710 ;  
C 50 ; WX 556 ; N two ; B 26 0 619 710 ;  
C 51 ; WX 556 ; N three ; B 65 -19 608 710 ;  
C 52 ; WX 556 ; N four ; B 60 0 598 710 ;  
C 53 ; WX 556 ; N five ; B 64 -19 636 698 ;  
C 54 ; WX 556 ; N six ; B 85 -19 619 710 ;  
C 55 ; WX 556 ; N seven ; B 125 0 676 698 ;  
C 56 ; WX 556 ; N  
eight ; B 69 -19 616 710 ;  
C 57 ; WX 556 ; N nine ; B 78 -19 615 710 ;  
C 58 ; WX 333 ; N colon ; B 92 0 351 512 ;  
C 59 ; WX 333 ; N semicolon ; B 56 -168 351 512 ;  
C 60 ; WX 584 ; N less ; B 82 -8 655 514 ;  
C 61 ; WX 584 ; N equal ; B 58 87 633 419 ;  
C 62 ; WX 584 ; N greater ; B 36 -8 609 514 ;  
C 63 ; WX 611 ; N question ; B 165 0 671 727 ;  
C 64 ; WX 975 ; N at ; B 186 -19 954 737 ;  
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;  
C 66 ; WX 722 ; N B ; B 76 0 764 718 ;  
C 67 ; WX 722 ; N C ; B 107 -19 789 737 ;  
C 68 ; WX 722 ; N D ; B 76 0 777 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 757 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 740 718 ;  
C 71 ; WX 778 ; N G ; B 108 -19 817 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 804 718 ;  
C 73 ; WX 278 ; N I ; B 64 0 367 718 ;  
C 74 ; WX 556 ; N J ; B 60 -18 637 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 858 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 611 718 ;  
C 77 ; WX 833 ; N M ; B 69 0 918 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 807 718 ;  
C 79 ; WX 778 ; N O ; B 107 -19 823  
737 ;  
C 80 ; WX 667 ; N P ; B 76 0 738 718 ;  
C 81 ; WX 778 ; N Q ; B 107 -52 823 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 778 718 ;  
C 83 ; WX 667 ; N S ; B 81 -19 718 737 ;  
C 84 ; WX 611 ; N T ; B 140 0 751 718 ;  
C 85 ; WX 722 ; N U ; B 116 -19 804 718 ;  
C 86 ; WX 667 ; N V ; B 172 0 801 718 ;  
C 87 ; WX 944 ; N W ; B 169 0 1082 718 ;  
C 88 ; WX 667 ; N X ; B 14 0 791 718 ;  
C 89 ; WX 667 ; N Y ; B 168 0 806 718 ;

C 90 ; WX 611 ; N Z ; B 25 0 737 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 21 -196 462 722 ;  
C 92 ; WX 278 ; N backslash ; B 124 -19 307 737 ;  
C 93 ; WX 333 ; N bracketright ; B -18 -196 423 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 131 323 591 698 ;  
C 95 ; WX 556 ; N underscore ; B -27 -125 540 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 165 454 361 727 ;  
C 97 ; WX 556 ; N a ; B 55 -14 583 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 645 718 ;  
C 99 ; WX 556 ; N c ; B 79 -14 599 546 ;  
C 100 ; WX 611 ; N d ; B 82 -14 704 718 ;  
C 101 ; WX 556 ; N e ; B 70 -14 593 546 ;  
C 102 ; WX  
333 ; N f ; B 87 0 469 727 ; L i f i ; L l f l ;  
C 103 ; WX 611 ; N g ; B 38 -217 666 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 629 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 363 725 ;  
C 106 ; WX 278 ; N j ; B -42 -214 363 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 670 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 362 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 909 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 629 546 ;  
C 111 ; WX 611 ; N o ; B 82 -14 643 546 ;  
C 112 ; WX 611 ; N p ; B 18 -207 645 546 ;  
C 113 ; WX 611 ; N q ; B 80 -207 665 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 489 546 ;  
C 115 ; WX 556 ; N s ; B 63 -14 584 546 ;  
C 116 ; WX 333 ; N t ; B 100 -6 422 676 ;  
C 117 ; WX 611 ; N u ; B 98 -14 658 532 ;  
C 118 ; WX 556 ; N v ; B 126 0 656 532 ;  
C 119 ; WX 778 ; N w ; B 123 0 882 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 648 532 ;  
C 121 ; WX 556 ; N y ; B 42 -214 652 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 583 532 ;  
C 123 ; WX 389 ; N braceleft ; B 94 -196 518 722 ;  
C 124 ; WX 280 ; N bar ; B 36 -225 361 775 ;  
C 125 ;  
WX 389 ; N braceright ; B -18 -196 407 722 ;  
C 126 ; WX 584 ; N asciitilde ; B 115 163 577 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 50 -186 353 532 ;  
C 162 ; WX 556 ; N cent ; B 79 -118 599 628 ;  
C 163 ; WX 556 ; N sterling ; B 50 -16 635 718 ;  
C 164 ; WX 167 ; N fraction ; B -174 -19 487 710 ;  
C 165 ; WX 556 ; N yen ; B 60 0 713 698 ;  
C 166 ; WX 556 ; N florin ; B -50 -210 669 737 ;  
C 167 ; WX 556 ; N section ; B 61 -184 598 727 ;  
C 168 ; WX 556 ; N currency ; B 27 76 680 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 165 447 321 718 ;

C 170 ; WX 500 ; N quotedblleft ; B 160 454 588 727 ;  
 C 171 ; WX 556 ; N guillemotleft ; B 135 76 571 484 ;  
 C 172 ; WX 333 ; N guilsinglleft ; B 130 76 353 484 ;  
 C 173 ; WX 333 ; N guilsinglright ; B 99 76 322 484 ;  
 C 174 ; WX 611 ; N fi ; B 87 0 696 727 ;  
 C 175 ; WX 611 ; N fl ; B 87 0 695 727 ;  
 C 177 ; WX 556 ; N endash ; B 48 227 627 333 ;  
 C 178 ; WX 556 ; N dagger ; B 118 -171 626 718 ;  
 C 179 ; WX 556 ; N daggerdbl ; B 46 -171 628 718 ;  
 C  
 180 ; WX 278 ; N periodcentered ; B 110 172 276 334 ;  
 C 182 ; WX 556 ; N paragraph ; B 98 -191 688 700 ;  
 C 183 ; WX 350 ; N bullet ; B 83 194 420 524 ;  
 C 184 ; WX 278 ; N quotesinglbase ; B 41 -146 236 127 ;  
 C 185 ; WX 500 ; N quotedblbase ; B 36 -146 463 127 ;  
 C 186 ; WX 500 ; N quotedblright ; B 162 445 589 718 ;  
 C 187 ; WX 556 ; N guillemotright ; B 104 76 540 484 ;  
 C 188 ; WX 1000 ; N ellipsis ; B 92 0 939 146 ;  
 C 189 ; WX 1000 ; N perthousand ; B 76 -19 1038 710 ;  
 C 191 ; WX 611 ; N questiondown ; B 53 -195 559 532 ;  
 C 193 ; WX 333 ; N grave ; B 136 604 353 750 ;  
 C 194 ; WX 333 ; N acute ; B 236 604 515 750 ;  
 C 195 ; WX 333 ; N circumflex ; B 118 604 471 750 ;  
 C 196 ; WX 333 ; N tilde ; B 113 610 507 737 ;  
 C 197 ; WX 333 ; N macron ; B 122 604 483 678 ;  
 C 198 ; WX 333 ; N breve ; B 156 604 494 750 ;  
 C 199 ; WX 333 ; N dotaccent ; B 235 614 385 729 ;  
 C 200 ; WX 333 ; N dieresis ; B 137 614 482 729 ;  
 C 202 ; WX 333 ; N ring ; B 200 568 420 776 ;  
 C 203 ; WX 333  
 ; N cedilla ; B -37 -228 220 0 ;  
 C 205 ; WX 333 ; N hungarumlaut ; B 137 604 645 750 ;  
 C 206 ; WX 333 ; N ogonek ; B 41 -228 264 0 ;  
 C 207 ; WX 333 ; N caron ; B 149 604 502 750 ;  
 C 208 ; WX 1000 ; N emdash ; B 48 227 1071 333 ;  
 C 225 ; WX 1000 ; N AE ; B 5 0 1100 718 ;  
 C 227 ; WX 370 ; N ordfeminine ; B 125 401 465 737 ;  
 C 232 ; WX 611 ; N Lslash ; B 34 0 611 718 ;  
 C 233 ; WX 778 ; N Oslash ; B 35 -27 894 745 ;  
 C 234 ; WX 1000 ; N OE ; B 99 -19 1114 737 ;  
 C 235 ; WX 365 ; N ordmasculine ; B 123 401 485 737 ;  
 C 241 ; WX 889 ; N ae ; B 56 -14 923 546 ;  
 C 245 ; WX 278 ; N dotlessi ; B 69 0 322 532 ;  
 C 248 ; WX 278 ; N lslash ; B 40 0 407 718 ;  
 C 249 ; WX 611 ; N oslash ; B 22 -29 701 560 ;  
 C 250 ; WX 944 ; N oe ; B 82 -14 977 546 ;  
 C 251 ; WX 611 ; N germandbls ; B 69 -14 657 731 ;  
 C -1 ; WX 278 ; N Idieresis ; B 64 0 494 915 ;



C -1 ; WX 556 ; N eacute ; B 70 -14 627 750 ;  
C -1 ; WX 556 ; N abreve ; B 55 -14 606 750 ;  
C -1 ; WX 611 ; N uhungarumlaut ; B 98 -14 784 750  
;  
C -1 ; WX 556 ; N ecaron ; B 70 -14 614 750 ;  
C -1 ; WX 667 ; N Ydieresis ; B 168 0 806 915 ;  
C -1 ; WX 584 ; N divide ; B 82 -42 610 548 ;  
C -1 ; WX 667 ; N Yacute ; B 168 0 806 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 706 936 ;  
C -1 ; WX 556 ; N aacute ; B 55 -14 627 750 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 116 -19 804 936 ;  
C -1 ; WX 556 ; N yacute ; B 42 -214 652 750 ;  
C -1 ; WX 556 ; N scommaaccent ; B 63 -228 584 546 ;  
C -1 ; WX 556 ; N ecircumflex ; B 70 -14 593 750 ;  
C -1 ; WX 722 ; N Uring ; B 116 -19 804 962 ;  
C -1 ; WX 722 ; N Udieresis ; B 116 -19 804 915 ;  
C -1 ; WX 556 ; N aogonek ; B 55 -224 583 546 ;  
C -1 ; WX 722 ; N Uacute ; B 116 -19 804 936 ;  
C -1 ; WX 611 ; N uogonek ; B 98 -228 658 532 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 757 915 ;  
C -1 ; WX 722 ; N Dcroat ; B 62 0 777 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 16 -228 188 -50 ;  
C -1 ; WX 737 ; N copyright ; B 56 -19 835 737 ;  
C -1 ; WX 667 ; N Emacron ; B 76 0 757 864 ;  
C -1 ; WX 556 ; N  
ccaron ; B 79 -14 614 750 ;  
C -1 ; WX 556 ; N aring ; B 55 -14 583 776 ;  
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 807 718 ;  
C -1 ; WX 278 ; N lacute ; B 69 0 528 936 ;  
C -1 ; WX 556 ; N agrave ; B 55 -14 583 750 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 140 -228 751 718 ;  
C -1 ; WX 722 ; N Cacute ; B 107 -19 789 936 ;  
C -1 ; WX 556 ; N atilde ; B 55 -14 619 737 ;  
C -1 ; WX 667 ; N Edotaccent ; B 76 0 757 915 ;  
C -1 ; WX 556 ; N scaron ; B 63 -14 614 750 ;  
C -1 ; WX 556 ; N scedilla ; B 63 -228 584 546 ;  
C -1 ; WX 278 ; N iacute ; B 69 0 488 750 ;  
C -1 ; WX 494 ; N lozenge ; B 90 0 564 745 ;  
C -1 ; WX 722 ; N Rcaron ; B 76 0 778 936 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 108 -228 817 737 ;  
C -1 ; WX 611 ; N ucircumflex ; B 98 -14 658 750 ;  
C -1 ; WX 556 ; N acircumflex ; B 55 -14 583 750 ;  
C -1 ; WX 722 ; N Amacron ; B 20 0 718 864 ;  
C -1 ; WX 389 ; N rcaron ; B 64 0 530 750 ;  
C -1 ; WX 556 ; N ccedilla ; B 79 -228 599 546 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 25 0 737 915  
;  
C -1 ; WX 667 ; N Thorn ; B 76 0 716 718 ;

C -1 ; WX 778 ; N Omacron ; B 107 -19 823 864 ;  
C -1 ; WX 722 ; N Racute ; B 76 0 778 936 ;  
C -1 ; WX 667 ; N Sacute ; B 81 -19 722 936 ;  
C -1 ; WX 743 ; N dcaron ; B 82 -14 903 718 ;  
C -1 ; WX 722 ; N Umacron ; B 116 -19 804 864 ;  
C -1 ; WX 611 ; N uring ; B 98 -14 658 776 ;  
C -1 ; WX 333 ; N threesuperior ; B 91 271 441 710 ;  
C -1 ; WX 778 ; N Ograve ; B 107 -19 823 936 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Abreve ; B 20 0 729 936 ;  
C -1 ; WX 584 ; N multiply ; B 57 1 635 505 ;  
C -1 ; WX 611 ; N uacute ; B 98 -14 658 750 ;  
C -1 ; WX 611 ; N Tcaron ; B 140 0 751 936 ;  
C -1 ; WX 494 ; N partialdiff ; B 43 -21 585 750 ;  
C -1 ; WX 556 ; N ydieresis ; B 42 -214 652 729 ;  
C -1 ; WX 722 ; N Nacute ; B 69 0 807 936 ;  
C -1 ; WX 278 ; N icircumflex ; B 69 0 444 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 757 936 ;  
C -1 ; WX 556 ; N adieresis ; B 55 -14 594 729 ;  
C -1 ; WX 556 ; N edieresis ; B 70 -14 594  
729 ;  
C -1 ; WX 556 ; N cacute ; B 79 -14 627 750 ;  
C -1 ; WX 611 ; N nacute ; B 65 0 654 750 ;  
C -1 ; WX 611 ; N umacron ; B 98 -14 658 678 ;  
C -1 ; WX 722 ; N Ncaron ; B 69 0 807 936 ;  
C -1 ; WX 278 ; N Iacute ; B 64 0 528 936 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 625 506 ;  
C -1 ; WX 280 ; N brokenbar ; B 52 -150 345 700 ;  
C -1 ; WX 737 ; N registered ; B 55 -19 834 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 108 -19 817 936 ;  
C -1 ; WX 278 ; N Idotaccent ; B 64 0 397 915 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 670 706 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 757 936 ;  
C -1 ; WX 389 ; N racute ; B 64 0 543 750 ;  
C -1 ; WX 611 ; N omacron ; B 82 -14 643 678 ;  
C -1 ; WX 611 ; N Zacute ; B 25 0 737 936 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 737 936 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 629 704 ;  
C -1 ; WX 722 ; N Eth ; B 62 0 777 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 107 -228 789 737 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 30 -228 362 718 ;  
C -1 ; WX 389 ; N tcaron ; B 100 -6 608  
878 ;  
C -1 ; WX 556 ; N eogonek ; B 70 -228 593 546 ;  
C -1 ; WX 722 ; N Uogonek ; B 116 -228 804 718 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 750 936 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 716 915 ;  
C -1 ; WX 556 ; N egrave ; B 70 -14 593 750 ;

C -1 ; WX 500 ; N zacute ; B 20 0 599 750 ;  
 C -1 ; WX 278 ; N iogonek ; B -14 -224 363 725 ;  
 C -1 ; WX 778 ; N Oacute ; B 107 -19 823 936 ;  
 C -1 ; WX 611 ; N oacute ; B 82 -14 654 750 ;  
 C -1 ; WX 556 ; N amacron ; B 55 -14 595 678 ;  
 C -1 ; WX 556 ; N sacute ; B 63 -14 627 750 ;  
 C -1 ; WX 278 ; N idieresis ; B 69 0 455 729 ;  
 C -1 ; WX 778 ; N Ocircumflex ; B 107 -19 823 936 ;  
 C -1 ; WX 722 ; N Ugrave ; B 116 -19 804 936 ;  
 C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
 C -1 ; WX 611 ; N thorn ; B 18 -208 645 718 ;  
 C -1 ; WX 333 ; N twosuperior ; B 69 283 449 710 ;  
 C -1 ; WX 778 ; N Odieresis ; B 107 -19 823 915 ;  
 C -1 ; WX 611 ; N mu ; B 22 -207 658 532 ;  
 C -1 ; WX 278 ; N igrave ; B 69 0 326 750 ;  
 C -1 ; WX 611 ; N ohungarumlaut ; B  
 82 -14 784 750 ;  
 C -1 ; WX 667 ; N Eogonek ; B 76 -224 757 718 ;  
 C -1 ; WX 611 ; N dcroat ; B 82 -14 789 718 ;  
 C -1 ; WX 834 ; N threequarters ; B 99 -19 839 710 ;  
 C -1 ; WX 667 ; N Scedilla ; B 81 -228 718 737 ;  
 C -1 ; WX 400 ; N lcaron ; B 69 0 561 718 ;  
 C -1 ; WX 722 ; N Kcommaaccent ; B 87 -228 858 718 ;  
 C -1 ; WX 611 ; N Lacute ; B 76 0 611 936 ;  
 C -1 ; WX 1000 ; N trademark ; B 179 306 1109 718 ;  
 C -1 ; WX 556 ; N edotaccent ; B 70 -14 593 729 ;  
 C -1 ; WX 278 ; N Igrave ; B 64 0 367 936 ;  
 C -1 ; WX 278 ; N Imacron ; B 64 0 496 864 ;  
 C -1 ; WX 611 ; N Lcaron ; B 76 0 643 718 ;  
 C -1 ; WX 834 ; N onehalf ; B 132 -19 858 710 ;  
 C -1 ; WX 549 ; N lessequal ; B 29 0 676 704 ;  
 C -1 ; WX 611 ; N ocircumflex ; B 82 -14 643 750 ;  
 C -1 ; WX 611 ; N ntilde ; B 65 0 646 737 ;  
 C -1 ; WX 722 ; N Uhungarumlaut ; B 116 -19 880 936 ;  
 C -1 ; WX 667 ; N Eacute ; B 76 0 757 936 ;  
 C -1 ; WX 556 ; N emacron ; B 70 -14 595 678 ;  
 C -1 ; WX 611 ; N gbreve ; B 38 -217 666 750 ;  
 C -1 ;  
 WX 834 ; N onequarter ; B 132 -19 806 710 ;  
 C -1 ; WX 667 ; N Scaron ; B 81 -19 718 936 ;  
 C -1 ; WX 667 ; N Scommaaccent ; B 81 -228 718 737 ;  
 C -1 ; WX 778 ; N Ohungarumlaut ; B 107 -19 908 936 ;  
 C -1 ; WX 400 ; N degree ; B 175 426 467 712 ;  
 C -1 ; WX 611 ; N ograve ; B 82 -14 643 750 ;  
 C -1 ; WX 722 ; N Ccaron ; B 107 -19 789 936 ;  
 C -1 ; WX 611 ; N ugrave ; B 98 -14 658 750 ;  
 C -1 ; WX 549 ; N radical ; B 112 -46 689 850 ;  
 C -1 ; WX 722 ; N Dcaron ; B 76 0 777 936 ;

C -1 ; WX 389 ; N rcommaaccent ; B 26 -228 489 546 ;  
C -1 ; WX 722 ; N Ntilde ; B 69 0 807 923 ;  
C -1 ; WX 611 ; N otilde ; B 82 -14 646 737 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 76 -228 778 718 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B 76 -228 611 718 ;  
C -1 ; WX 722 ; N Atilde ; B 20 0 741 923 ;  
C -1 ; WX 722 ; N Aogonek ; B 20 -224 702 718 ;  
C -1 ; WX 722 ; N Aring ; B 20 0 702 962 ;  
C -1 ; WX 778 ; N Otilde ; B 107 -19 823 923 ;  
C -1 ; WX 500 ; N zdotaccent ; B 20 0 583 729 ;  
C -1 ; WX 667 ; N Ecaron ;  
B 76 0 757 936 ;  
C -1 ; WX 278 ; N Iogonek ; B -41 -228 367 718 ;  
C -1 ; WX 556 ; N kcommaaccent ; B 69 -228 670 718 ;  
C -1 ; WX 584 ; N minus ; B 82 197 610 309 ;  
C -1 ; WX 278 ; N Icircumflex ; B 64 0 484 936 ;  
C -1 ; WX 611 ; N ncaron ; B 65 0 641 750 ;  
C -1 ; WX 333 ; N tcommaaccent ; B 58 -228 422 676 ;  
C -1 ; WX 584 ; N logicalnot ; B 105 108 633 419 ;  
C -1 ; WX 611 ; N odieresis ; B 82 -14 643 729 ;  
C -1 ; WX 611 ; N udieresis ; B 98 -14 658 729 ;  
C -1 ; WX 549 ; N notequal ; B 32 -49 630 570 ;  
C -1 ; WX 611 ; N gcommaaccent ; B 38 -217 666 850 ;  
C -1 ; WX 611 ; N eth ; B 82 -14 670 737 ;  
C -1 ; WX 500 ; N zcaron ; B 20 0 586 750 ;  
C -1 ; WX 611 ; N ncommaaccent ; B 65 -228 629 546 ;  
C -1 ; WX 333 ; N onesuperior ; B 148 283 388 710 ;  
C -1 ; WX 278 ; N imacron ; B 69 0 429 678 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

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StartKernPairs 2481

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KPX A Cacute -40

KPX A Ccaron -40

KPX A Ccedilla -40

KPX A G -50

KPX A Gbreve

-50

KPX A Gcommaaccent -50

KPX A O -40

KPX A Oacute -40

KPX A Ocircumflex -40

KPX A Odieresis -40

KPX A Ograve -40

KPX A Ohungarumlaut -40

KPX A Omacron -40

KPX A Oslash -40

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Comment Creation Date: Thu May 1 12:44:31 1997

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Comment VMusage 14960 69346

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FullName Helvetica Oblique

FamilyName Helvetica

Weight Medium

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StdHW 76  
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C 235 ; WX 365 ; N ordmasculine ; B 141 405 468 737 ;  
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C -1 ; WX 667 ; N Sacute ; B 90 -19 713 929 ;  
C -1 ; WX 643 ; N dcaron ; B 84 -15 808 718 ;  
C -1 ; WX 722 ; N Umacron ; B 123 -19 797 879 ;  
C -1 ; WX 556 ; N uring ; B 94 -15 600 756 ;  
C -1 ; WX 333 ; N threesuperior ; B 90 270 436 703 ;  
C -1 ; WX 778 ; N Ograve ; B 105 -19 826 929 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Abreve ; B 14 0 685 926 ;  
C -1 ; WX 584 ; N multiply ; B 50 0 642 506 ;  
C -1 ; WX 556 ; N uacute ; B 94 -15 600 734 ;  
C -1 ; WX 611 ; N Tcaron ; B 148 0 750 929 ;  
C -1 ; WX 476 ; N partialdiff ; B 41 -38 550 714 ;  
C -1 ; WX 500 ; N ydieresis ; B 15 -214 600 706 ;  
C -1 ; WX 722 ; N Nacute ; B 76 0 799 929 ;  
C -1 ; WX 278 ; N icircumflex ; B 95 0 411 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 762 929 ;  
C -1 ; WX 556 ; N adieresis ; B 61 -15 559 706 ;  
C -1 ; WX 556 ; N edieresis ; B 84 -15 578 706

;  
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 C -1 ; WX 556 ; N nacute ; B 65 0 587 734 ;  
 C -1 ; WX 556 ; N umacron ; B 94 -15 600 684 ;  
 C -1 ; WX 722 ; N Ncaron ; B 76 0 799 929 ;  
 C -1 ; WX 278 ; N Iacute ; B 91 0 489 929 ;  
 C -1 ; WX 584 ; N plusminus ; B 39 0 618 506 ;  
 C -1 ; WX 260 ; N brokenbar ; B 62 -150 316 700 ;  
 C -1 ; WX 737 ; N registered ; B 54 -19 837 737 ;  
 C -1 ; WX 778 ; N Gbreve ; B 111 -19 799 926 ;  
 C -1 ; WX 278 ; N Idotaccent ; B 91 0 377 901 ;  
 C -1 ; WX 600 ; N summation ; B 15 -10 671 706 ;  
 C -1 ; WX 667 ; N Egrave ; B 86 0 762 929 ;  
 C -1 ; WX 333 ; N racute ; B 77 0 475 734 ;  
 C -1 ; WX 556 ; N omacron ; B 83 -14 585 684 ;  
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 C -1 ; WX 611 ; N Zcaron ; B 23 0 741 929 ;  
 C -1 ; WX 549 ; N greaterequal ; B 26 0 620 674 ;  
 C -1 ; WX 722 ; N Eth ; B 69 0 764 718 ;  
 C -1 ; WX 722 ; N Ccedilla ; B 108 -225 782 737 ;  
 C -1 ; WX 222 ; N lcommaaccent ; B 25 -225 308 718 ;  
 C -1 ; WX 317 ; N tcaron ; B 102 -7 501 808  
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 C -1 ; WX 556 ; N eogonek ; B 84 -225 578 538 ;  
 C -1 ; WX 722 ; N Uogonek ; B 123 -225 797 718 ;  
 C -1 ; WX 667 ; N Aacute ; B 14 0 683 929 ;  
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 C -1 ; WX 778 ; N Oacute ; B 105 -19 826 929 ;  
 C -1 ; WX 556 ; N oacute ; B 83 -14 587 734 ;  
 C -1 ; WX 556 ; N amacron ; B 61 -15 580 684 ;  
 C -1 ; WX 500 ; N sacute ; B 63 -15 559 734 ;  
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 C -1 ; WX 722 ; N Ugrave ; B 123 -19 797 929 ;  
 C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
 C -1 ; WX 556 ; N thorn ; B 14 -207 584 718 ;  
 C -1 ; WX 333 ; N twosuperior ; B 64 281 449 703 ;  
 C -1 ; WX 778 ; N Odieresis ; B 105 -19 826 901 ;  
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 C -1 ; WX 278 ; N igrave ; B 95 0 310 734 ;  
 C -1 ; WX 556 ; N ohungarumlaut ; B 83 -14  
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 C -1 ; WX 667 ; N Eogonek ; B 86 -220 762 718 ;  
 C -1 ; WX 556 ; N dcroat ; B 84 -15 689 718 ;  
 C -1 ; WX 834 ; N threequarters ; B 130 -19 861 703 ;

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C -1 ; WX 278 ; N Igrave ; B 91 0 351 929 ;  
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C -1 ; WX 556 ; N Lcaron ; B 76 0 570 718 ;  
C -1 ; WX 834 ; N onehalf ; B 114 -19 839 703 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 666 674 ;  
C -1 ; WX 556 ; N ocircumflex ; B 83 -14 585 734 ;  
C -1 ; WX 556 ; N ntilde ; B 65 0 592 722 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 123 -19 801 929 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 762 929 ;  
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C -1 ; WX 834  
; N onequarter ; B 150 -19 802 703 ;  
C -1 ; WX 667 ; N Scaron ; B 90 -19 713 929 ;  
C -1 ; WX 667 ; N Scommaaccent ; B 90 -225 713 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 105 -19 829 929 ;  
C -1 ; WX 400 ; N degree ; B 169 411 468 703 ;  
C -1 ; WX 556 ; N ograve ; B 83 -14 585 734 ;  
C -1 ; WX 722 ; N Ccaron ; B 108 -19 782 929 ;  
C -1 ; WX 556 ; N ugrave ; B 94 -15 600 734 ;  
C -1 ; WX 453 ; N radical ; B 79 -80 617 762 ;  
C -1 ; WX 722 ; N Dcaron ; B 81 0 764 929 ;  
C -1 ; WX 333 ; N rcommaaccent ; B 30 -225 446 538 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 799 917 ;  
C -1 ; WX 556 ; N otilde ; B 83 -14 602 722 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 773 718 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 555 718 ;  
C -1 ; WX 667 ; N Atilde ; B 14 0 699 917 ;  
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 778 ; N Otilde ; B 105 -19 826 917 ;  
C -1 ; WX 500 ; N zdotaccent ; B 31 0 571 706 ;  
C -1 ; WX 667 ; N Ecaron ; B 86  
0 762 929 ;  
C -1 ; WX 278 ; N Iogonek ; B -33 -225 341 718 ;  
C -1 ; WX 500 ; N kcommaaccent ; B 67 -225 600 718 ;  
C -1 ; WX 584 ; N minus ; B 85 216 606 289 ;  
C -1 ; WX 278 ; N Icircumflex ; B 91 0 452 929 ;  
C -1 ; WX 556 ; N ncaron ; B 65 0 580 734 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 63 -225 368 669 ;  
C -1 ; WX 584 ; N logicalnot ; B 106 108 628 390 ;  
C -1 ; WX 556 ; N odieresis ; B 83 -14 585 706 ;



C -1 ; WX 556 ; N udieresis ; B 94 -15 600 706 ;  
C -1 ; WX 549 ; N notequal ; B 34 -35 623 551 ;  
C -1 ; WX 556 ; N gcommaaccent ; B 42 -220 610 822 ;  
C -1 ; WX 556 ; N eth ; B 81 -15 617 737 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 571 734 ;  
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 573 538 ;  
C -1 ; WX 333 ; N onesuperior ; B 166 281 371 703 ;  
C -1 ; WX 278 ; N imacron ; B 95 0 417 684 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

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KPX

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KPX A Q -30

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KPX A Tcaron -120

KPX A Tcommaaccent -120

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Comment Creation Date: Thu May 1 15:12:25 1997

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FullName Symbol

FamilyName Symbol

Weight Medium

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CharacterSet Special

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UnderlinePosition -100

UnderlineThickness 50

Version 001.008

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EncodingScheme FontSpecific

StdHW 92

StdVW 85

StartCharMetrics 190

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C 33 ; WX 333 ; N exclam ; B 128 -17 240 672 ;

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C 35 ; WX 500 ; N numbersign ; B 20 -16 481 673 ;

C 36 ; WX 549 ; N existential ; B 25 0 478 707 ;

C 37 ; WX 833 ; N percent ; B 63 -36 771 655 ;

C 38 ; WX 778 ; N ampersand ;

B 41 -18 750 661 ;

C 39 ; WX 439 ; N suchthat ; B 48 -17 414 500 ;

C 40 ; WX 333 ; N parenleft ; B 53 -191 300 673 ;

C 41 ; WX 333 ; N parenright ; B 30 -191 277 673 ;

C 42 ; WX 500 ; N asteriskmath ; B 65 134 427 551 ;

C 43 ; WX 549 ; N plus ; B 10 0 539 533 ;

C 44 ; WX 250 ; N comma ; B 56 -152 194 104 ;

C 45 ; WX 549 ; N minus ; B 11 233 535 288 ;

C 46 ; WX 250 ; N period ; B 69 -17 181 95 ;

C 47 ; WX 278 ; N slash ; B 0 -18 254 646 ;

C 48 ; WX 500 ; N zero ; B 24 -14 476 685 ;

C 49 ; WX 500 ; N one ; B 117 0 390 673 ;

C 50 ; WX 500 ; N two ; B 25 0 475 685 ;

C 51 ; WX 500 ; N three ; B 43 -14 435 685 ;

C 52 ; WX 500 ; N four ; B 15 0 469 685 ;

C 53 ; WX 500 ; N five ; B 32 -14 445 690 ;

C 54 ; WX 500 ; N six ; B 34 -14 468 685 ;  
C 55 ; WX 500 ; N seven ; B 24 -16 448 673 ;  
C 56 ; WX 500 ; N eight ; B 56 -14 445 685 ;  
C 57 ; WX 500 ; N nine ; B 30 -18 459 685 ;  
C 58 ; WX 278 ; N colon ; B 81 -17 193 460 ;  
C 59 ; WX 278 ; N semicolon ; B 83 -152 221 460 ;  
C 60 ;  
WX 549 ; N less ; B 26 0 523 522 ;  
C 61 ; WX 549 ; N equal ; B 11 141 537 390 ;  
C 62 ; WX 549 ; N greater ; B 26 0 523 522 ;  
C 63 ; WX 444 ; N question ; B 70 -17 412 686 ;  
C 64 ; WX 549 ; N congruent ; B 11 0 537 475 ;  
C 65 ; WX 722 ; N Alpha ; B 4 0 684 673 ;  
C 66 ; WX 667 ; N Beta ; B 29 0 592 673 ;  
C 67 ; WX 722 ; N Chi ; B -9 0 704 673 ;  
C 68 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C 69 ; WX 611 ; N Epsilon ; B 32 0 617 673 ;  
C 70 ; WX 763 ; N Phi ; B 26 0 741 673 ;  
C 71 ; WX 603 ; N Gamma ; B 24 0 609 673 ;  
C 72 ; WX 722 ; N Eta ; B 39 0 729 673 ;  
C 73 ; WX 333 ; N Iota ; B 32 0 316 673 ;  
C 74 ; WX 631 ; N theta1 ; B 18 -18 623 689 ;  
C 75 ; WX 722 ; N Kappa ; B 35 0 722 673 ;  
C 76 ; WX 686 ; N Lambda ; B 6 0 680 688 ;  
C 77 ; WX 889 ; N Mu ; B 28 0 887 673 ;  
C 78 ; WX 722 ; N Nu ; B 29 -8 720 673 ;  
C 79 ; WX 722 ; N Omicron ; B 41 -17 715 685 ;  
C 80 ; WX 768 ; N Pi ; B 25 0 745 673 ;  
C 81 ; WX 741 ; N Theta ; B 41 -17 715 685 ;  
C 82 ; WX 556 ; N Rho ; B 28 0 563  
673 ;  
C 83 ; WX 592 ; N Sigma ; B 5 0 589 673 ;  
C 84 ; WX 611 ; N Tau ; B 33 0 607 673 ;  
C 85 ; WX 690 ; N Upsilon ; B -8 0 694 673 ;  
C 86 ; WX 439 ; N sigma1 ; B 40 -233 436 500 ;  
C 87 ; WX 768 ; N Omega ; B 34 0 736 688 ;  
C 88 ; WX 645 ; N Xi ; B 40 0 599 673 ;  
C 89 ; WX 795 ; N Psi ; B 15 0 781 684 ;  
C 90 ; WX 611 ; N Zeta ; B 44 0 636 673 ;  
C 91 ; WX 333 ; N bracketleft ; B 86 -155 299 674 ;  
C 92 ; WX 863 ; N therefore ; B 163 0 701 487 ;  
C 93 ; WX 333 ; N bracketright ; B 33 -155 246 674 ;  
C 94 ; WX 658 ; N perpendicular ; B 15 0 652 674 ;  
C 95 ; WX 500 ; N underscore ; B -2 -125 502 -75 ;  
C 96 ; WX 500 ; N radicaless ; B 480 881 1090 917 ;  
C 97 ; WX 631 ; N alpha ; B 41 -18 622 500 ;  
C 98 ; WX 549 ; N beta ; B 61 -223 515 741 ;  
C 99 ; WX 549 ; N chi ; B 12 -231 522 499 ;

C 100 ; WX 494 ; N delta ; B 40 -19 481 740 ;  
C 101 ; WX 439 ; N epsilon ; B 22 -19 427 502 ;  
C 102 ; WX 521 ; N phi ; B 28 -224 492 673 ;  
C 103 ; WX 411 ; N gamma ; B 5 -225 484 499 ;  
C 104  
; WX 603 ; N eta ; B 0 -202 527 514 ;  
C 105 ; WX 329 ; N iota ; B 0 -17 301 503 ;  
C 106 ; WX 603 ; N phi1 ; B 36 -224 587 499 ;  
C 107 ; WX 549 ; N kappa ; B 33 0 558 501 ;  
C 108 ; WX 549 ; N lambda ; B 24 -17 548 739 ;  
C 109 ; WX 576 ; N mu ; B 33 -223 567 500 ;  
C 110 ; WX 521 ; N nu ; B -9 -16 475 507 ;  
C 111 ; WX 549 ; N omicron ; B 35 -19 501 499 ;  
C 112 ; WX 549 ; N pi ; B 10 -19 530 487 ;  
C 113 ; WX 521 ; N theta ; B 43 -17 485 690 ;  
C 114 ; WX 549 ; N rho ; B 50 -230 490 499 ;  
C 115 ; WX 603 ; N sigma ; B 30 -21 588 500 ;  
C 116 ; WX 439 ; N tau ; B 10 -19 418 500 ;  
C 117 ; WX 576 ; N upsilon ; B 7 -18 535 507 ;  
C 118 ; WX 713 ; N omega1 ; B 12 -18 671 583 ;  
C 119 ; WX 686 ; N omega ; B 42 -17 684 500 ;  
C 120 ; WX 493 ; N xi ; B 27 -224 469 766 ;  
C 121 ; WX 686 ; N psi ; B 12 -228 701 500 ;  
C 122 ; WX 494 ; N zeta ; B 60 -225 467 756 ;  
C 123 ; WX 480 ; N braceleft ; B 58 -183 397 673 ;  
C 124 ; WX 200 ; N bar ; B 65 -293 135 707 ;  
C 125 ; WX 480 ; N braceright  
; B 79 -183 418 673 ;  
C 126 ; WX 549 ; N similar ; B 17 203 529 307 ;  
C 160 ; WX 750 ; N Euro ; B 20 -12 714 685 ;  
C 161 ; WX 620 ; N Upsilon1 ; B -2 0 610 685 ;  
C 162 ; WX 247 ; N minute ; B 27 459 228 735 ;  
C 163 ; WX 549 ; N lessequal ; B 29 0 526 639 ;  
C 164 ; WX 167 ; N fraction ; B -180 -12 340 677 ;  
C 165 ; WX 713 ; N infinity ; B 26 124 688 404 ;  
C 166 ; WX 500 ; N florin ; B 2 -193 494 686 ;  
C 167 ; WX 753 ; N club ; B 86 -26 660 533 ;  
C 168 ; WX 753 ; N diamond ; B 142 -36 600 550 ;  
C 169 ; WX 753 ; N heart ; B 117 -33 631 532 ;  
C 170 ; WX 753 ; N spade ; B 113 -36 629 548 ;  
C 171 ; WX 1042 ; N arrowboth ; B 24 -15 1024 511 ;  
C 172 ; WX 987 ; N arrowleft ; B 32 -15 942 511 ;  
C 173 ; WX 603 ; N arrowup ; B 45 0 571 910 ;  
C 174 ; WX 987 ; N arrowright ; B 49 -15 959 511 ;  
C 175 ; WX 603 ; N arrowdown ; B 45 -22 571 888 ;  
C 176 ; WX 400 ; N degree ; B 50 385 350 685 ;  
C 177 ; WX 549 ; N plusminus ; B 10 0 539 645 ;  
C 178 ; WX 411 ; N second ; B 20 459 413 737

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 C 179 ; WX 549 ; N greaterequal ; B 29 0 526 639 ;  
 C 180 ; WX 549 ; N multiply ; B 17 8 533 524 ;  
 C 181 ; WX 713 ; N proportional ; B 27 123 639 404 ;  
 C 182 ; WX 494 ; N partialdiff ; B 26 -20 462 746 ;  
 C 183 ; WX 460 ; N bullet ; B 50 113 410 473 ;  
 C 184 ; WX 549 ; N divide ; B 10 71 536 456 ;  
 C 185 ; WX 549 ; N notequal ; B 15 -25 540 549 ;  
 C 186 ; WX 549 ; N equivalence ; B 14 82 538 443 ;  
 C 187 ; WX 549 ; N approxequal ; B 14 135 527 394 ;  
 C 188 ; WX 1000 ; N ellipsis ; B 111 -17 889 95 ;  
 C 189 ; WX 603 ; N arrowvertex ; B 280 -120 336 1010 ;  
 C 190 ; WX 1000 ; N arrowhorizex ; B -60 220 1050 276 ;  
 C 191 ; WX 658 ; N carriagereturn ; B 15 -16 602 629 ;  
 C 192 ; WX 823 ; N aleph ; B 175 -18 661 658 ;  
 C 193 ; WX 686 ; N Ifraktur ; B 10 -53 578 740 ;  
 C 194 ; WX 795 ; N Rfraktur ; B 26 -15 759 734 ;  
 C 195 ; WX 987 ; N weierstrass ; B 159 -211 870 573 ;  
 C 196 ; WX 768 ; N circlemultiply ; B 43 -17 733 673 ;  
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 C 198  
 ; WX 823 ; N emptyset ; B 39 -24 781 719 ;  
 C 199 ; WX 768 ; N intersection ; B 40 0 732 509 ;  
 C 200 ; WX 768 ; N union ; B 40 -17 732 492 ;  
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 C 202 ; WX 713 ; N reflexsuperset ; B 20 -125 673 470 ;  
 C 203 ; WX 713 ; N notsubset ; B 36 -70 690 540 ;  
 C 204 ; WX 713 ; N propersubset ; B 37 0 690 470 ;  
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 C 206 ; WX 713 ; N element ; B 45 0 505 468 ;  
 C 207 ; WX 713 ; N notelement ; B 45 -58 505 555 ;  
 C 208 ; WX 768 ; N angle ; B 26 0 738 673 ;  
 C 209 ; WX 713 ; N gradient ; B 36 -19 681 718 ;  
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 C 211 ; WX 790 ; N copyrightserif ; B 51 -15 741 675 ;  
 C 212 ; WX 890 ; N trademarkserif ; B 18 293 855 673 ;  
 C 213 ; WX 823 ; N product ; B 25 -101 803 751 ;  
 C 214 ; WX 549 ; N radical ; B 10 -38 515 917 ;  
 C 215 ; WX 250 ; N dotmath ; B 69 210 169 310 ;  
 C 216 ; WX 713 ; N logicalnot ; B 15 0 680 288 ;  
 C 217 ; WX 603 ; N logicaland  
 ; B 23 0 583 454 ;  
 C 218 ; WX 603 ; N logicalor ; B 30 0 578 477 ;  
 C 219 ; WX 1042 ; N arrowdblboth ; B 27 -20 1023 510 ;  
 C 220 ; WX 987 ; N arrowdblleft ; B 30 -15 939 513 ;  
 C 221 ; WX 603 ; N arrowdblup ; B 39 2 567 911 ;  
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C 224 ; WX 494 ; N lozenge ; B 18 0 466 745 ;  
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C 231 ; WX 384 ; N parenleftex ; B 24 -85 108 925 ;  
C 232 ; WX 384 ; N parenleftbt ; B 24 -293 436 926 ;  
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C 239 ; WX 494 ; N braceex ; B 209 -85 284 935 ;  
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Comment Creation Date: Thu May 1 13:04:06 1997

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Comment VMusage 45874 56899

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FamilyName Times

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Notice Copyright (c) 1985, 1987, 1989, 1990, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved. Times  
is a trademark of Linotype-Hell AG and/or its subsidiaries.  
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Descender -217  
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StdVW 121  
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C 35 ;  
WX 500 ; N numbersign ; B -33 0 533 700 ;  
C 36 ; WX 500 ; N dollar ; B -20 -100 497 733 ;  
C 37 ; WX 833 ; N percent ; B 39 -10 793 692 ;  
C 38 ; WX 778 ; N ampersand ; B 5 -19 699 682 ;  
C 39 ; WX 333 ; N quoteright ; B 98 369 302 685 ;  
C 40 ; WX 333 ; N parenleft ; B 28 -179 344 685 ;  
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C 44 ; WX 250 ; N comma ; B -60 -182 144 134 ;  
C 45 ; WX 333 ; N hyphen ; B 2 166 271 282 ;  
C 46 ; WX 250 ; N period ; B -9 -13 139 135 ;  
C 47 ; WX 278 ; N slash ; B -64 -18 342 685 ;  
C 48 ; WX 500 ; N zero ; B 17 -14 477 683 ;  
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C 51 ; WX 500 ; N three ; B -15 -13 450 683 ;  
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C 55 ; WX 500 ; N seven ; B 52 0 525 669 ;  
C 56 ; WX 500 ; N eight  
; B 3 -13 476 683 ;  
C 57 ; WX 500 ; N nine ; B -12 -10 475 683 ;  
C 58 ; WX 333 ; N colon ; B 23 -13 264 459 ;  
C 59 ; WX 333 ; N semicolon ; B -25 -183 264 459 ;



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C 61 ; WX 570 ; N equal ; B 33 107 537 399 ;  
C 62 ; WX 570 ; N greater ; B 31 -8 539 514 ;  
C 63 ; WX 500 ; N question ; B 79 -13 470 684 ;  
C 64 ; WX 832 ; N at ; B 63 -18 770 685 ;  
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C 92 ; WX 278 ; N backslash ; B -1 -18 279 685 ;  
C 93 ; WX 333 ; N bracketright ; B -56 -157 343 674 ;  
C 94 ; WX 570 ; N asciicircum ; B 67 304 503 669 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 128 369 332 685 ;  
C 97 ; WX 500 ; N a ; B -21 -14 455 462 ;  
C 98 ; WX 500 ; N b ; B -14 -13 444 699 ;  
C 99 ; WX 444 ; N c ; B -5 -13 392 462 ;  
C 100 ; WX 500 ; N d ; B -21 -13 517 699 ;  
C 101 ; WX 444 ; N e ; B 5 -13 398 462 ;  
C  
102 ; WX 333 ; N f ; B -169 -205 446 698 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B -52 -203 478 462 ;  
C 104 ; WX 556 ; N h ; B -13 -9 498 699 ;  
C 105 ; WX 278 ; N i ; B 2 -9 263 684 ;

C 106 ; WX 278 ; N j ; B -189 -207 279 684 ;  
C 107 ; WX 500 ; N k ; B -23 -8 483 699 ;  
C 108 ; WX 278 ; N l ; B 2 -9 290 699 ;  
C 109 ; WX 778 ; N m ; B -14 -9 722 462 ;  
C 110 ; WX 556 ; N n ; B -6 -9 493 462 ;  
C 111 ; WX 500 ; N o ; B -3 -13 441 462 ;  
C 112 ; WX 500 ; N p ; B -120 -205 446 462 ;  
C 113 ; WX 500 ; N q ; B 1 -205 471 462 ;  
C 114 ; WX 389 ; N r ; B -21 0 389 462 ;  
C 115 ; WX 389 ; N s ; B -19 -13 333 462 ;  
C 116 ; WX 278 ; N t ; B -11 -9 281 594 ;  
C 117 ; WX 556 ; N u ; B 15 -9 492 462 ;  
C 118 ; WX 444 ; N v ; B 16 -13 401 462 ;  
C 119 ; WX 667 ; N w ; B 16 -13 614 462 ;  
C 120 ; WX 500 ; N x ; B -46 -13 469 462 ;  
C 121 ; WX 444 ; N y ; B -94 -205 392 462 ;  
C 122 ; WX 389 ; N z ; B -43 -78 368 449 ;  
C 123 ; WX 348 ; N braceleft ; B 5 -187 436 686 ;  
C 124 ; WX 220 ; N  
bar ; B 66 -218 154 782 ;  
C 125 ; WX 348 ; N braceright ; B -129 -187 302 686 ;  
C 126 ; WX 570 ; N asciitilde ; B 54 173 516 333 ;  
C 161 ; WX 389 ; N exclamdown ; B 19 -205 322 492 ;  
C 162 ; WX 500 ; N cent ; B 42 -143 439 576 ;  
C 163 ; WX 500 ; N sterling ; B -32 -12 510 683 ;  
C 164 ; WX 167 ; N fraction ; B -169 -14 324 683 ;  
C 165 ; WX 500 ; N yen ; B 33 0 628 669 ;  
C 166 ; WX 500 ; N florin ; B -87 -156 537 707 ;  
C 167 ; WX 500 ; N section ; B 36 -143 459 685 ;  
C 168 ; WX 500 ; N currency ; B -26 34 526 586 ;  
C 169 ; WX 278 ; N quotesingle ; B 128 398 268 685 ;  
C 170 ; WX 500 ; N quotedblleft ; B 53 369 513 685 ;  
C 171 ; WX 500 ; N guillemotleft ; B 12 32 468 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 32 32 303 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 10 32 281 415 ;  
C 174 ; WX 556 ; N fi ; B -188 -205 514 703 ;  
C 175 ; WX 556 ; N fl ; B -186 -205 553 704 ;  
C 177 ; WX 500 ; N endash ; B -40 178 477 269 ;  
C 178 ; WX 500 ; N dagger ; B 91 -145 494 685 ;  
C 179  
; WX 500 ; N daggerdbl ; B 10 -139 493 685 ;  
C 180 ; WX 250 ; N periodcentered ; B 51 257 199 405 ;  
C 182 ; WX 500 ; N paragraph ; B -57 -193 562 669 ;  
C 183 ; WX 350 ; N bullet ; B 0 175 350 525 ;  
C 184 ; WX 333 ; N quotesinglbase ; B -5 -182 199 134 ;  
C 185 ; WX 500 ; N quotedblbase ; B -57 -182 403 134 ;  
C 186 ; WX 500 ; N quotedblright ; B 53 369 513 685 ;  
C 187 ; WX 500 ; N guillemotright ; B 12 32 468 415 ;

C 188 ; WX 1000 ; N ellipsis ; B 40 -13 852 135 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 996 706 ;  
C 191 ; WX 500 ; N questiondown ; B 30 -205 421 492 ;  
C 193 ; WX 333 ; N grave ; B 85 516 297 697 ;  
C 194 ; WX 333 ; N acute ; B 139 516 379 697 ;  
C 195 ; WX 333 ; N circumflex ; B 40 516 367 690 ;  
C 196 ; WX 333 ; N tilde ; B 48 536 407 655 ;  
C 197 ; WX 333 ; N macron ; B 51 553 393 623 ;  
C 198 ; WX 333 ; N breve ; B 71 516 387 678 ;  
C 199 ; WX 333 ; N dotaccent ; B 163 550 298 684 ;  
C 200 ; WX 333 ; N dieresis ; B 55 550 402 684 ;  
C 202 ; WX 333 ; N ring ;  
B 127 516 340 729 ;  
C 203 ; WX 333 ; N cedilla ; B -80 -218 156 5 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 69 516 498 697 ;  
C 206 ; WX 333 ; N ogonek ; B 15 -183 244 34 ;  
C 207 ; WX 333 ; N caron ; B 79 516 411 690 ;  
C 208 ; WX 1000 ; N emdash ; B -40 178 977 269 ;  
C 225 ; WX 944 ; N AE ; B -64 0 918 669 ;  
C 227 ; WX 266 ; N ordfeminine ; B 16 399 330 685 ;  
C 232 ; WX 611 ; N Lslash ; B -22 0 590 669 ;  
C 233 ; WX 722 ; N Oslash ; B 27 -125 691 764 ;  
C 234 ; WX 944 ; N OE ; B 23 -8 946 677 ;  
C 235 ; WX 300 ; N ordmasculine ; B 56 400 347 685 ;  
C 241 ; WX 722 ; N ae ; B -5 -13 673 462 ;  
C 245 ; WX 278 ; N dotlessi ; B 2 -9 238 462 ;  
C 248 ; WX 278 ; N lslash ; B -7 -9 307 699 ;  
C 249 ; WX 500 ; N oslash ; B -3 -119 441 560 ;  
C 250 ; WX 722 ; N oe ; B 6 -13 674 462 ;  
C 251 ; WX 500 ; N germandbls ; B -200 -200 473 705 ;  
C -1 ; WX 389 ; N Idieresis ; B -32 0 450 862 ;  
C -1 ; WX 444 ; N eacute ; B 5 -13 435 697 ;  
C -1 ; WX 500 ; N abreve ; B -21 -14 471 678 ;  
C -1 ; WX 556  
; N uhungarumlaut ; B 15 -9 610 697 ;  
C -1 ; WX 444 ; N ecaron ; B 5 -13 467 690 ;  
C -1 ; WX 611 ; N Ydieresis ; B 73 0 659 862 ;  
C -1 ; WX 570 ; N divide ; B 33 -29 537 535 ;  
C -1 ; WX 611 ; N Yacute ; B 73 0 659 904 ;  
C -1 ; WX 667 ; N Acircumflex ; B -67 0 593 897 ;  
C -1 ; WX 500 ; N aacute ; B -21 -14 463 697 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 67 -18 744 897 ;  
C -1 ; WX 444 ; N yacute ; B -94 -205 435 697 ;  
C -1 ; WX 389 ; N scommaaccent ; B -19 -218 333 462 ;  
C -1 ; WX 444 ; N ecircumflex ; B 5 -13 423 690 ;  
C -1 ; WX 722 ; N Uring ; B 67 -18 744 921 ;  
C -1 ; WX 722 ; N Udieresis ; B 67 -18 744 862 ;  
C -1 ; WX 500 ; N aogonek ; B -21 -183 455 462 ;

C -1 ; WX 722 ; N Uacute ; B 67 -18 744 904 ;  
 C -1 ; WX 556 ; N uogonek ; B 15 -183 492 462 ;  
 C -1 ; WX 667 ; N Edieresis ; B -27 0 653 862 ;  
 C -1 ; WX 722 ; N Dcroat ; B -31 0 700 669 ;  
 C -1 ; WX 250 ; N commaaccent ; B -36 -218 131 -50 ;  
 C -1 ; WX 747 ; N copyright ; B 30 -18 718 685 ;  
 C -1 ; WX 667 ; N Emacron  
 ; B -27 0 653 830 ;  
 C -1 ; WX 444 ; N ccaron ; B -5 -13 467 690 ;  
 C -1 ; WX 500 ; N aring ; B -21 -14 455 729 ;  
 C -1 ; WX 722 ; N Ncommaaccent ; B -27 -218 748 669 ;  
 C -1 ; WX 278 ; N lacute ; B 2 -9 392 904 ;  
 C -1 ; WX 500 ; N agrave ; B -21 -14 455 697 ;  
 C -1 ; WX 611 ; N Tcommaaccent ; B 50 -218 650 669 ;  
 C -1 ; WX 667 ; N Cacute ; B 32 -18 677 904 ;  
 C -1 ; WX 500 ; N atilde ; B -21 -14 491 655 ;  
 C -1 ; WX 667 ; N Edotaccent ; B -27 0 653 862 ;  
 C -1 ; WX 389 ; N scaron ; B -19 -13 424 690 ;  
 C -1 ; WX 389 ; N scedilla ; B -19 -218 333 462 ;  
 C -1 ; WX 278 ; N iacute ; B 2 -9 352 697 ;  
 C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;  
 C -1 ; WX 667 ; N Rcaron ; B -29 0 623 897 ;  
 C -1 ; WX 722 ; N Gcommaaccent ; B 21 -218 706 685 ;  
 C -1 ; WX 556 ; N ucircumflex ; B 15 -9 492 690 ;  
 C -1 ; WX 500 ; N acircumflex ; B -21 -14 455 690 ;  
 C -1 ; WX 667 ; N Amacron ; B -67 0 593 830 ;  
 C -1 ; WX 389 ; N rcaron ; B -21 0 424 690 ;  
 C -1 ; WX 444 ; N ccedilla ; B -5 -218 392 462 ;  
 C  
 -1 ; WX 611 ; N Zdotaccent ; B -11 0 590 862 ;  
 C -1 ; WX 611 ; N Thorn ; B -27 0 573 669 ;  
 C -1 ; WX 722 ; N Omacron ; B 27 -18 691 830 ;  
 C -1 ; WX 667 ; N Racute ; B -29 0 623 904 ;  
 C -1 ; WX 556 ; N Sacute ; B 2 -18 531 904 ;  
 C -1 ; WX 608 ; N dcaron ; B -21 -13 675 708 ;  
 C -1 ; WX 722 ; N Umacron ; B 67 -18 744 830 ;  
 C -1 ; WX 556 ; N uring ; B 15 -9 492 729 ;  
 C -1 ; WX 300 ; N threesuperior ; B 17 265 321 683 ;  
 C -1 ; WX 722 ; N Ograve ; B 27 -18 691 904 ;  
 C -1 ; WX 667 ; N Agrave ; B -67 0 593 904 ;  
 C -1 ; WX 667 ; N Abreve ; B -67 0 593 885 ;  
 C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
 C -1 ; WX 556 ; N uacute ; B 15 -9 492 697 ;  
 C -1 ; WX 611 ; N Tcaron ; B 50 0 650 897 ;  
 C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;  
 C -1 ; WX 444 ; N ydieresis ; B -94 -205 443 655 ;  
 C -1 ; WX 722 ; N Nacute ; B -27 -15 748 904 ;  
 C -1 ; WX 278 ; N icircumflex ; B -3 -9 324 690 ;

C -1 ; WX 667 ; N Ecircumflex ; B -27 0 653 897 ;  
C -1 ; WX 500 ; N adieresis ; B -21 -14  
476 655 ;  
C -1 ; WX 444 ; N edieresis ; B 5 -13 448 655 ;  
C -1 ; WX 444 ; N cacute ; B -5 -13 435 697 ;  
C -1 ; WX 556 ; N nacute ; B -6 -9 493 697 ;  
C -1 ; WX 556 ; N umacron ; B 15 -9 492 623 ;  
C -1 ; WX 722 ; N Ncaron ; B -27 -15 748 897 ;  
C -1 ; WX 389 ; N Iacute ; B -32 0 432 904 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;  
C -1 ; WX 747 ; N registered ; B 30 -18 718 685 ;  
C -1 ; WX 722 ; N Gbreve ; B 21 -18 706 885 ;  
C -1 ; WX 389 ; N Idotaccent ; B -32 0 406 862 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;  
C -1 ; WX 667 ; N Egrave ; B -27 0 653 904 ;  
C -1 ; WX 389 ; N racute ; B -21 0 407 697 ;  
C -1 ; WX 500 ; N omacron ; B -3 -13 462 623 ;  
C -1 ; WX 611 ; N Zacute ; B -11 0 590 904 ;  
C -1 ; WX 611 ; N Zcaron ; B -11 0 590 897 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;  
C -1 ; WX 722 ; N Eth ; B -31 0 700 669 ;  
C -1 ; WX 667 ; N Ccedilla ; B 32 -218 677 685 ;  
C -1 ; WX 278 ; N lcommaaccent ;  
B -42 -218 290 699 ;  
C -1 ; WX 366 ; N tcaron ; B -11 -9 434 754 ;  
C -1 ; WX 444 ; N eogonek ; B 5 -183 398 462 ;  
C -1 ; WX 722 ; N Uogonek ; B 67 -183 744 669 ;  
C -1 ; WX 667 ; N Aacute ; B -67 0 593 904 ;  
C -1 ; WX 667 ; N Adieresis ; B -67 0 593 862 ;  
C -1 ; WX 444 ; N egrave ; B 5 -13 398 697 ;  
C -1 ; WX 389 ; N zacute ; B -43 -78 407 697 ;  
C -1 ; WX 278 ; N iogonek ; B -20 -183 263 684 ;  
C -1 ; WX 722 ; N Oacute ; B 27 -18 691 904 ;  
C -1 ; WX 500 ; N oacute ; B -3 -13 463 697 ;  
C -1 ; WX 500 ; N amacron ; B -21 -14 467 623 ;  
C -1 ; WX 389 ; N sacute ; B -19 -13 407 697 ;  
C -1 ; WX 278 ; N idieresis ; B 2 -9 364 655 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 27 -18 691 897 ;  
C -1 ; WX 722 ; N Ugrave ; B 67 -18 744 904 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 500 ; N thorn ; B -120 -205 446 699 ;  
C -1 ; WX 300 ; N twosuperior ; B 2 274 313 683 ;  
C -1 ; WX 722 ; N Odieresis ; B 27 -18 691 862 ;  
C -1 ; WX 576 ; N mu ; B -60 -207 516 449 ;  
C -1 ; WX 278 ; N  
igrave ; B 2 -9 259 697 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B -3 -13 582 697 ;

C -1 ; WX 667 ; N Eogonek ; B -27 -183 653 669 ;  
C -1 ; WX 500 ; N dcroat ; B -21 -13 552 699 ;  
C -1 ; WX 750 ; N threequarters ; B 7 -14 726 683 ;  
C -1 ; WX 556 ; N Scedilla ; B 2 -218 526 685 ;  
C -1 ; WX 382 ; N lcaron ; B 2 -9 448 708 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B -21 -218 702 669 ;  
C -1 ; WX 611 ; N Lacute ; B -22 0 590 904 ;  
C -1 ; WX 1000 ; N trademark ; B 32 263 968 669 ;  
C -1 ; WX 444 ; N edotaccent ; B 5 -13 398 655 ;  
C -1 ; WX 389 ; N Igrave ; B -32 0 406 904 ;  
C -1 ; WX 389 ; N Imacron ; B -32 0 461 830 ;  
C -1 ; WX 611 ; N Lcaron ; B -22 0 671 718 ;  
C -1 ; WX 750 ; N onehalf ; B -9 -14 723 683 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;  
C -1 ; WX 500 ; N ocircumflex ; B -3 -13 451 690 ;  
C -1 ; WX 556 ; N ntilde ; B -6 -9 504 655 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 67 -18 744 904 ;  
C -1 ; WX 667 ; N Eacute ; B -27 0 653 904 ;  
C -1 ; WX 444 ; N emacron ; B 5 -13 439  
623 ;  
C -1 ; WX 500 ; N gbreve ; B -52 -203 478 678 ;  
C -1 ; WX 750 ; N onequarter ; B 7 -14 721 683 ;  
C -1 ; WX 556 ; N Scaron ; B 2 -18 553 897 ;  
C -1 ; WX 556 ; N Scommaaccent ; B 2 -218 526 685 ;  
C -1 ; WX 722 ; N Ohungarumlaut ; B 27 -18 723 904 ;  
C -1 ; WX 400 ; N degree ; B 83 397 369 683 ;  
C -1 ; WX 500 ; N ograve ; B -3 -13 441 697 ;  
C -1 ; WX 667 ; N Ccaron ; B 32 -18 677 897 ;  
C -1 ; WX 556 ; N ugrave ; B 15 -9 492 697 ;  
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;  
C -1 ; WX 722 ; N Dcaron ; B -46 0 685 897 ;  
C -1 ; WX 389 ; N rcommaaccent ; B -67 -218 389 462 ;  
C -1 ; WX 722 ; N Ntilde ; B -27 -15 748 862 ;  
C -1 ; WX 500 ; N otilde ; B -3 -13 491 655 ;  
C -1 ; WX 667 ; N Rcommaaccent ; B -29 -218 623 669 ;  
C -1 ; WX 611 ; N Lcommaaccent ; B -22 -218 590 669 ;  
C -1 ; WX 667 ; N Atilde ; B -67 0 593 862 ;  
C -1 ; WX 667 ; N Aogonek ; B -67 -183 604 683 ;  
C -1 ; WX 667 ; N Aring ; B -67 0 593 921 ;  
C -1 ; WX 722 ; N Otilde ; B 27 -18 691 862 ;  
C -1 ; WX 389  
; N zdotaccent ; B -43 -78 368 655 ;  
C -1 ; WX 667 ; N Ecaron ; B -27 0 653 897 ;  
C -1 ; WX 389 ; N Iogonek ; B -32 -183 406 669 ;  
C -1 ; WX 500 ; N kcommaaccent ; B -23 -218 483 699 ;  
C -1 ; WX 606 ; N minus ; B 51 209 555 297 ;  
C -1 ; WX 389 ; N Icircumflex ; B -32 0 450 897 ;  
C -1 ; WX 556 ; N ncaron ; B -6 -9 523 690 ;

C -1 ; WX 278 ; N tcommaaccent ; B -62 -218 281 594 ;  
C -1 ; WX 606 ; N logicalnot ; B 51 108 555 399 ;  
C -1 ; WX 500 ; N odieresis ; B -3 -13 471 655 ;  
C -1 ; WX 556 ; N udieresis ; B 15 -9 499 655 ;  
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;  
C -1 ; WX 500 ; N gcommaaccent ; B -52 -203 478 767 ;  
C -1 ; WX 500 ; N eth ; B -3 -13 454 699 ;  
C -1 ; WX 389 ; N zcaron ; B -43 -78 424 690 ;  
C -1 ; WX 556 ; N ncommaaccent ; B -6 -218 493 462 ;  
C -1 ; WX 300 ; N onesuperior ; B 30 274 301 683 ;  
C -1 ; WX 278 ; N imacron ; B 2 -9 294 623 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2038

KPX A C -65

KPX A Cacute

-65

KPX A Ccaron -65

KPX A Ccedilla -65

KPX A G -60

KPX A Gbreve -60

KPX A Gcommaaccent -60

KPX A O -50

KPX A Oacute -50

KPX A Ocircumflex -50

KPX A Odieresis -50

KPX A Ograve -50

KPX A Ohungarumlaut -50

KPX A Omacron -50

KPX A Oslash -50

KPX A Otilde -50

KPX A Q -55

KPX A T -55

KPX A Tcaron -55

KPX A Tcommaaccent -55

KPX A U -50

KPX A Uacute -50

KPX A Ucircumflex -50

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KPX A Uhungarumlaut -50

KPX A Umacron -50

KPX A Uogonek -50

KPX A Uring -50

KPX A V -95

KPX A W -100

KPX A Y -70

KPX A Yacute -70  
KPX A Ydieresis -70  
KPX A quoteright -74  
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KPX A uacute -30  
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KPX A udieresis -30  
KPX A ugrave -30  
KPX A uhungarumlaut -30  
KPX A umacron -30  
KPX A uogonek -30  
KPX A uring -30  
KPX A v -74  
KPX A w -74  
KPX A y -74  
KPX A yacute -74  
KPX A ydieresis -74  
KPX Aacute C -65  
KPX Aacute Cacute -65  
KPX Aacute Ccaron -65  
KPX Aacute Ccedilla -65  
KPX Aacute G -60  
KPX Aacute Gbreve -60  
KPX  
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KPX Aacute Uogonek -50  
KPX Aacute Uring -50  
KPX Aacute V -95



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KPX Aacute uogonek -30  
KPX Aacute uring -30  
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KPX Aacute ydieresis -74  
KPX  
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KPX Abreve Cacute -65  
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KPX Abreve Uogonek -50

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KPX Abreve quoteright -74  
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KPX Abreve uacute -30  
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uogonek -30  
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KPX Abreve w -74  
KPX Abreve y -74  
KPX Abreve yacute -74  
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KPX Acircumflex C -65  
KPX Acircumflex Cacute -65  
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KPX Acircumflex Ccedilla -65  
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KPX Acircumflex Omacron -50  
KPX Acircumflex Oslash -50  
KPX Acircumflex Otilde -50  
KPX Acircumflex Q -55  
KPX Acircumflex T -55  
KPX Acircumflex Tcaron -55  
KPX Acircumflex Tcommaaccent -55  
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KPX Acircumflex  
W -100  
KPX Acircumflex Y -70  
KPX Acircumflex Yacute -70  
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No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1

Comment Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jun 23 16:28:46 1997

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B 87 -126 630 666 ;  
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C 38 ; WX 600 ; N ampersand ; B 61 -15 595 543 ;  
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C 171 ; WX 600 ; N guillemotleft ; B 62 70 639 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 195 70 545 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 165 70 514 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 644 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 644 626 ;  
C 177 ; WX 600 ; N endash ; B 108 203 602 313 ;  
C 178 ; WX 600 ; N dagger ; B 175 -70 586 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 121 -70 587 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 248 165 461 351 ;  
C 182  
; WX 600 ; N paragraph ; B 61 -70 700 580 ;  
C 183 ; WX 600 ; N bullet ; B 196 132 523 430 ;

C 184 ; WX 600 ; N quotesinglbase ; B 144 -142 458 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 34 -142 560 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 119 277 645 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 71 70 647 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 35 -15 587 116 ;  
C 189 ; WX 600 ; N perthousand ; B -45 -15 743 616 ;  
C 191 ; WX 600 ; N questiondown ; B 100 -146 509 449 ;  
C 193 ; WX 600 ; N grave ; B 272 508 503 661 ;  
C 194 ; WX 600 ; N acute ; B 312 508 609 661 ;  
C 195 ; WX 600 ; N circumflex ; B 212 483 607 657 ;  
C 196 ; WX 600 ; N tilde ; B 199 493 643 636 ;  
C 197 ; WX 600 ; N macron ; B 195 505 637 585 ;  
C 198 ; WX 600 ; N breve ; B 217 468 652 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 348 498 493 638 ;  
C 200 ; WX 600 ; N dieresis ; B 246 498 595 638 ;  
C 202 ; WX 600 ; N ring ; B 319 481 528 678 ;  
C 203 ; WX 600 ; N cedilla ; B 168 -206 368 0 ;  
C 205 ; WX 600 ; N hungarumlaut  
; B 171 488 729 661 ;  
C 206 ; WX 600 ; N ogonek ; B 143 -199 367 0 ;  
C 207 ; WX 600 ; N caron ; B 238 493 633 667 ;  
C 208 ; WX 600 ; N emdash ; B 33 203 677 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 708 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 188 196 526 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 636 562 ;  
C 233 ; WX 600 ; N Oslash ; B 48 -22 673 584 ;  
C 234 ; WX 600 ; N OE ; B 26 0 701 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 188 196 543 580 ;  
C 241 ; WX 600 ; N ae ; B 21 -15 652 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 546 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 587 626 ;  
C 249 ; WX 600 ; N oslash ; B 54 -24 638 463 ;  
C 250 ; WX 600 ; N oe ; B 18 -15 662 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 629 626 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 643 761 ;  
C -1 ; WX 600 ; N eacute ; B 81 -15 609 661 ;  
C -1 ; WX 600 ; N abreve ; B 61 -15 658 661 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B 70 -15 769 661 ;  
C -1 ; WX 600 ; N ecaron ; B 81 -15 633 667 ;  
C -1 ; WX 600 ; N  
Ydieresis ; B 109 0 709 761 ;  
C -1 ; WX 600 ; N divide ; B 114 16 596 500 ;  
C -1 ; WX 600 ; N Yacute ; B 109 0 709 784 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 632 780 ;  
C -1 ; WX 600 ; N aacute ; B 61 -15 609 661 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 101 -18 716 780 ;  
C -1 ; WX 600 ; N yacute ; B -21 -142 695 661 ;  
C -1 ; WX 600 ; N scommaaccent ; B 66 -250 608 459 ;

C -1 ; WX 600 ; N ecircumflex ; B 81 -15 607 657 ;  
C -1 ; WX 600 ; N Uring ; B 101 -18 716 801 ;  
C -1 ; WX 600 ; N Udieresis ; B 101 -18 716 761 ;  
C -1 ; WX 600 ; N aogonek ; B 61 -199 593 454 ;  
C -1 ; WX 600 ; N Uacute ; B 101 -18 716 784 ;  
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C -1 ; WX 600 ; N Edieresis ; B 25 0 670 761 ;  
C -1 ; WX 600 ; N Dcroat ; B 30 0 664 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 151 -250 385 -57 ;  
C -1 ; WX 600 ; N copyright ; B 53 -18 667 580 ;  
C -1 ; WX 600 ; N Emacron ; B 25 0 670 708 ;  
C -1 ; WX 600 ; N ccaron ; B 81 -15 633 667 ;  
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678 ;  
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C -1 ; WX 600 ; N Cacute ; B 74 -18 675 784 ;  
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C -1 ; WX 600 ; N scedilla ; B 66 -206 608 459 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 609 661 ;  
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C -1 ; WX 600 ; N Amacron ; B -9 0 633 708 ;  
C -1 ; WX 600 ; N rcaron ; B 47 0 655 667 ;  
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C -1 ; WX 600 ; N Zdotaccent ; B 62 0 637 761 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 620 562 ;  
C -1 ; WX 600 ; N Omacron  
; B 74 -18 663 708 ;  
C -1 ; WX 600 ; N Racute ; B 24 0 665 784 ;  
C -1 ; WX 600 ; N Sacute ; B 54 -22 673 784 ;  
C -1 ; WX 600 ; N dcaron ; B 60 -15 861 626 ;  
C -1 ; WX 600 ; N Umacron ; B 101 -18 716 708 ;  
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C -1 ; WX 600 ; N uacute ; B 70 -15 599 661 ;  
C -1 ; WX 600 ; N Tcaron ; B 86 0 679 790 ;

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C -1 ; WX 600 ; N ydieresis ; B -21 -142 695 638 ;  
C -1 ; WX 600 ; N Nacute ; B 8 -12 730 784 ;  
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C -1 ; WX 600 ; N Ecircumflex ; B 25 0 670 780 ;  
C -1 ; WX 600 ; N adieresis ; B 61 -15 595 638 ;  
C -1 ; WX 600 ; N edieresis ; B 81 -15 605 638 ;  
C -1 ; WX 600 ; N cacute ; B 81 -15 649 661 ;  
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600 ; N nacute ; B 18 0 639 661 ;  
C -1 ; WX 600 ; N umacron ; B 70 -15 637 585 ;  
C -1 ; WX 600 ; N Ncaron ; B 8 -12 730 790 ;  
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C -1 ; WX 600 ; N tcaron ; B 118 -15 627 703 ;  
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C -1 ; WX 600 ; N Ocircumflex ; B 74 -18 645 780 ;  
C -1 ; WX 600 ; N Ugrave ; B 101 -18 716 784 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;  
C -1 ; WX 600 ; N thorn ; B -32 -142 622 626 ;  
C -1 ; WX 600 ; N twosuperior ; B 191 230 542 616 ;  
C -1 ; WX 600 ; N Odieresis ; B 74 -18 645 761 ;



C -1 ; WX 600 ; N mu ; B 49 -142 592 439 ;  
 C -1 ; WX 600 ; N igrave ; B 77 0 546 661 ;  
 C -1 ; WX 600 ; N ohungarumlaut ; B 71 -15 809 661 ;  
 C -1 ; WX 600 ; N Eogonek ; B 25 -199 670 562 ;  
 C  
 -1 ; WX 600 ; N dcroat ; B 60 -15 712 626 ;  
 C -1 ; WX 600 ; N threequarters ; B 8 -60 699 661 ;  
 C -1 ; WX 600 ; N Scedilla ; B 54 -206 673 582 ;  
 C -1 ; WX 600 ; N lcaron ; B 77 0 731 626 ;  
 C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 692 562 ;  
 C -1 ; WX 600 ; N Lacute ; B 39 0 636 784 ;  
 C -1 ; WX 600 ; N trademark ; B 86 230 869 562 ;  
 C -1 ; WX 600 ; N edotaccent ; B 81 -15 605 638 ;  
 C -1 ; WX 600 ; N Igrave ; B 77 0 643 784 ;  
 C -1 ; WX 600 ; N Imacron ; B 77 0 663 708 ;  
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 C -1 ; WX 600 ; N onehalf ; B 22 -60 716 661 ;  
 C -1 ; WX 600 ; N lessequal ; B 26 0 671 696 ;  
 C -1 ; WX 600 ; N ocircumflex ; B 71 -15 622 657 ;  
 C -1 ; WX 600 ; N ntilde ; B 18 0 643 636 ;  
 C -1 ; WX 600 ; N Uhungarumlaut ; B 101 -18 805 784 ;  
 C -1 ; WX 600 ; N Eacute ; B 25 0 670 784 ;  
 C -1 ; WX 600 ; N emacron ; B 81 -15 637 585 ;  
 C -1 ; WX 600 ; N gbreve ; B 40 -146 674 661 ;  
 C -1 ; WX 600 ; N onequarter ; B 13 -60 707 661 ;  
 C -1 ; WX 600 ; N Scaron ; B  
 54 -22 689 790 ;  
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 C -1 ; WX 600 ; N degree ; B 173 243 570 616 ;  
 C -1 ; WX 600 ; N ograve ; B 71 -15 622 661 ;  
 C -1 ; WX 600 ; N Ccaron ; B 74 -18 689 790 ;  
 C -1 ; WX 600 ; N ugrave ; B 70 -15 592 661 ;  
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 C -1 ; WX 600 ; N Dcaron ; B 30 0 664 790 ;  
 C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 655 454 ;  
 C -1 ; WX 600 ; N Ntilde ; B 8 -12 730 759 ;  
 C -1 ; WX 600 ; N otilde ; B 71 -15 643 636 ;  
 C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 617 562 ;  
 C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 636 562 ;  
 C -1 ; WX 600 ; N Atilde ; B -9 0 669 759 ;  
 C -1 ; WX 600 ; N Aogonek ; B -9 -199 632 562 ;  
 C -1 ; WX 600 ; N Aring ; B -9 0 632 801 ;  
 C -1 ; WX 600 ; N Otilde ; B 74 -18 669 759 ;  
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 C -1 ; WX 600 ; N Ecaron ; B 25 0 670 790 ;  
 C -1 ; WX 600 ; N Iogonek ; B 77 -199 643 562 ;  
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WX 600 ; N kcommaaccent ; B 33 -250 643 626 ;  
C -1 ; WX 600 ; N minus ; B 114 203 596 313 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 643 780 ;  
C -1 ; WX 600 ; N ncaron ; B 18 0 633 667 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 118 -250 567 562 ;  
C -1 ; WX 600 ; N logicalnot ; B 135 103 617 413 ;  
C -1 ; WX 600 ; N odieresis ; B 71 -15 622 638 ;  
C -1 ; WX 600 ; N udieresis ; B 70 -15 595 638 ;  
C -1 ; WX 600 ; N notequal ; B 30 -47 626 563 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 40 -146 674 714 ;  
C -1 ; WX 600 ; N eth ; B 93 -27 661 626 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 643 667 ;  
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C -1 ; WX 600 ; N onesuperior ; B 212 230 514 616 ;  
C -1 ; WX 600 ; N imacron ; B 77 0 575 585 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;  
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StartFontMetrics 4.1

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CharacterSet ExtendedRoman

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EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 426

Ascender 629

Descender -157

StdHW 51

StdVW 51

StartCharMetrics 315

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C 35 ; WX 600 ; N numbersign ; B 133 -32 596 639 ;  
C 36 ; WX 600 ; N dollar  
; B 108 -126 596 662 ;  
C 37 ; WX 600 ; N percent ; B 134 -15 599 622 ;  
C 38 ; WX 600 ; N ampersand ; B 87 -15 580 543 ;  
C 39 ; WX 600 ; N quoteright ; B 283 328 495 562 ;  
C 40 ; WX 600 ; N parenleft ; B 313 -108 572 622 ;  
C 41 ; WX 600 ; N parenright ; B 137 -108 396 622 ;  
C 42 ; WX 600 ; N asterisk ; B 212 257 580 607 ;  
C 43 ; WX 600 ; N plus ; B 129 44 580 470 ;  
C 44 ; WX 600 ; N comma ; B 157 -112 370 122 ;  
C 45 ; WX 600 ; N hyphen ; B 152 231 558 285 ;  
C 46 ; WX 600 ; N period ; B 238 -15 382 109 ;  
C 47 ; WX 600 ; N slash ; B 112 -80 604 629 ;  
C 48 ; WX 600 ; N zero ; B 154 -15 575 622 ;  
C 49 ; WX 600 ; N one ; B 98 0 515 622 ;  
C 50 ; WX 600 ; N two ; B 70 0 568 622 ;  
C 51 ; WX 600 ; N three ; B 82 -15 538 622 ;  
C 52 ; WX 600 ; N four ; B 108 0 541 622 ;  
C 53 ; WX 600 ; N five ; B 99 -15 589 607 ;  
C 54 ; WX 600 ; N six ; B 155 -15 629 622 ;  
C 55 ; WX 600 ; N seven ; B 182 0 612 607 ;  
C 56 ; WX 600 ; N eight ; B 132 -15 588 622 ;  
C 57 ; WX 600 ; N nine ; B 93  
-15 574 622 ;  
C 58 ; WX 600 ; N colon ; B 238 -15 441 385 ;  
C 59 ; WX 600 ; N semicolon ; B 157 -112 441 385 ;  
C 60 ; WX 600 ; N less ; B 96 42 610 472 ;  
C 61 ; WX 600 ; N equal ; B 109 138 600 376 ;  
C 62 ; WX 600 ; N greater ; B 85 42 599 472 ;  
C 63 ; WX 600 ; N question ; B 222 -15 583 572 ;  
C 64 ; WX 600 ; N at ; B 127 -15 582 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 607 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 616 562 ;  
C 67 ; WX 600 ; N C ; B 93 -18 655 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 645 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 660 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 660 562 ;  
C 71 ; WX 600 ; N G ; B 83 -18 645 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 687 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 623 562 ;  
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C 77 ; WX 600 ; N M ; B 4 0 715 562 ;

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C 80 ; WX 600 ; N P ; B 79 0 644 562 ;  
C 81  
; WX 600 ; N Q ; B 95 -138 625 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 598 562 ;  
C 83 ; WX 600 ; N S ; B 76 -20 650 580 ;  
C 84 ; WX 600 ; N T ; B 108 0 665 562 ;  
C 85 ; WX 600 ; N U ; B 125 -18 702 562 ;  
C 86 ; WX 600 ; N V ; B 105 -13 723 562 ;  
C 87 ; WX 600 ; N W ; B 106 -13 722 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 675 562 ;  
C 89 ; WX 600 ; N Y ; B 133 0 695 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 610 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 246 -108 574 622 ;  
C 92 ; WX 600 ; N backslash ; B 249 -80 468 629 ;  
C 93 ; WX 600 ; N bracketright ; B 135 -108 463 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 175 354 587 622 ;  
C 95 ; WX 600 ; N underscore ; B -27 -125 584 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 343 328 457 562 ;  
C 97 ; WX 600 ; N a ; B 76 -15 569 441 ;  
C 98 ; WX 600 ; N b ; B 29 -15 625 629 ;  
C 99 ; WX 600 ; N c ; B 106 -15 608 441 ;  
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103 ; WX 600 ; N g ; B 61 -157 657 441 ;  
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C 117 ; WX 600 ; N u ; B 101 -15 572 426 ;  
C 118 ; WX 600 ; N v ; B 90 -10 681 426 ;  
C 119 ; WX 600 ; N w ; B 76 -10 695 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 655 426 ;  
C 121 ; WX 600 ; N y ; B -4 -157 683 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 593 426 ;  
C 123 ; WX 600 ; N braceleft ; B 233 -108 569 622 ;

C 124 ; WX 600 ; N bar ; B 222 -250 485 750 ;  
C 125 ; WX 600 ; N braceright ; B 140 -108 477  
622 ;  
C 126 ; WX 600 ; N asciitilde ; B 116 197 600 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 225 -157 445 430 ;  
C 162 ; WX 600 ; N cent ; B 151 -49 588 614 ;  
C 163 ; WX 600 ; N sterling ; B 124 -21 621 611 ;  
C 164 ; WX 600 ; N fraction ; B 84 -57 646 665 ;  
C 165 ; WX 600 ; N yen ; B 120 0 693 562 ;  
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C 167 ; WX 600 ; N section ; B 104 -78 590 580 ;  
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C 180 ; WX 600 ; N periodcentered ; B 275  
189 434 327 ;  
C 182 ; WX 600 ; N paragraph ; B 100 -78 630 562 ;  
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C 207 ; WX 600 ; N caron ; B 262 492 614 669 ;  
C 208 ; WX 600 ; N emdash ; B 49 231 661 285 ;

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C 227 ; WX 600 ; N ordfeminine ; B 209 249 512 580 ;  
C 232 ; WX 600 ; N Lslash ; B 47 0 607 562 ;  
C 233 ; WX 600 ; N Oslash ; B 94 -80 625 629 ;  
C 234 ; WX 600 ; N OE ; B 59 0 672 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 210 249 535 580 ;  
C 241 ; WX 600 ; N ae ; B 41 -15 626 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 515 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 587 629 ;  
C 249 ; WX 600 ; N oslash ; B 102 -80 588 506 ;  
C 250 ; WX 600 ; N oe ; B 54 -15 615 441 ;  
C 251 ; WX 600 ; N germandbls ; B 48 -15 617 629 ;  
C -1 ; WX 600 ; N Idieresis ; B 96 0 623 753 ;  
C -1 ; WX 600 ; N eacute ; B 106 -15 612 672 ;  
C -1 ; WX 600 ; N abreve ; B 76 -15 576 609 ;  
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C -1 ; WX 600 ; N ecaron ; B 106 -15  
614 669 ;  
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C -1 ; WX 600 ; N Yacute ; B 133 0 695 805 ;  
C -1 ; WX 600 ; N Acircumflex ; B 3 0 607 787 ;  
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C -1 ; WX 600 ; N Ucircumflex ; B 125 -18 702 787 ;  
C -1 ; WX 600 ; N yacute ; B -4 -157 683 672 ;  
C -1 ; WX 600 ; N scommaaccent ; B 78 -250 584 441 ;  
C -1 ; WX 600 ; N ecircumflex ; B 106 -15 598 654 ;  
C -1 ; WX 600 ; N Uring ; B 125 -18 702 760 ;  
C -1 ; WX 600 ; N Udieresis ; B 125 -18 702 753 ;  
C -1 ; WX 600 ; N aogonek ; B 76 -172 569 441 ;  
C -1 ; WX 600 ; N Uacute ; B 125 -18 702 805 ;  
C -1 ; WX 600 ; N uogonek ; B 101 -172 572 426 ;  
C -1 ; WX 600 ; N Edieresis ; B 53 0 660 753 ;  
C -1 ; WX 600 ; N Dcroat ; B 43 0 645 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 145 -250 323 -58 ;  
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C -1 ; WX 600 ; N lacute ; B 95 0 640 805 ;  
C -1 ; WX 600 ; N agrave ; B 76 -15 569 672 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 108 -250 665 562 ;  
C -1 ; WX 600 ; N Cacute ; B 93 -18 655 805 ;  
C -1 ; WX 600 ; N atilde ; B 76 -15 629 606 ;  
C -1 ; WX 600 ; N Edotaccent ; B 53 0 660 753 ;  
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C -1 ; WX 600 ; N Amacron ; B 3 0 607 698 ;  
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C -1 ; WX 600 ; N Thorn ; B 79 0 606  
562 ;  
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C -1 ; WX 600 ; N Racute ; B 38 0 670 805 ;  
C -1 ; WX 600 ; N Sacute ; B 76 -20 650 805 ;  
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C -1 ; WX 600 ; N Umacron ; B 125 -18 702 698 ;  
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C -1 ; WX 600 ; N Abreve ; B 3 0 607 732 ;  
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C -1 ; WX 600 ; N uacute ; B 101 -15 602 672 ;  
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C -1 ; WX 600 ; N Nacute ; B 7 -13 712 805 ;  
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C -1 ; WX 600 ; N Ecircumflex ; B 53 0 660 787 ;  
C -1 ; WX 600 ; N adieresis ; B 76 -15 575 620 ;  
C -1 ; WX 600 ; N edieresis ; B 106 -15 598 620 ;  
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C -1 ; WX 600 ; N Eth ; B 43 0 645 562 ;  
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C -1 ; WX 600 ; N eogonek  
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C -1 ; WX 600 ; N twosuperior ; B 230 249 535 622 ;  
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; N Eogonek ; B 53 -172 660 562 ;  
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C -1 ; WX 600 ; N threequarters ; B 73 -56 659 666 ;  
C -1 ; WX 600 ; N Scedilla ; B 76 -151 650 580 ;  
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Comment VMusage 45775 55535

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FullName ITC Zapf Dingbats

FamilyName ZapfDingbats

Weight Medium

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IsFixedPitch false

CharacterSet Special

FontBBox -1 -143 981 820

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme FontSpecific

StdHW 28

StdVW 90

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C 210 ; WX 788 ; N a158 ; B 35 -14 754 705 ;  
C 211 ; WX 788 ; N a159 ; B 35 -14 754 705 ;  
C 212 ; WX 894 ; N a160 ; B 35 58 860 634 ;

C 213 ; WX 838 ; N a161 ; B 35 152 803 540 ;  
C 214 ; WX 1016 ; N a163 ; B  
34 152 981 540 ;  
C 215 ; WX 458 ; N a164 ; B 35 -127 422 820 ;  
C 216 ; WX 748 ; N a196 ; B 35 94 698 597 ;  
C 217 ; WX 924 ; N a165 ; B 35 140 890 552 ;  
C 218 ; WX 748 ; N a192 ; B 35 94 698 597 ;  
C 219 ; WX 918 ; N a166 ; B 35 166 884 526 ;  
C 220 ; WX 927 ; N a167 ; B 35 32 892 660 ;  
C 221 ; WX 928 ; N a168 ; B 35 129 891 562 ;  
C 222 ; WX 928 ; N a169 ; B 35 128 893 563 ;  
C 223 ; WX 834 ; N a170 ; B 35 155 799 537 ;  
C 224 ; WX 873 ; N a171 ; B 35 93 838 599 ;  
C 225 ; WX 828 ; N a172 ; B 35 104 791 588 ;  
C 226 ; WX 924 ; N a173 ; B 35 98 889 594 ;  
C 227 ; WX 924 ; N a162 ; B 35 98 889 594 ;  
C 228 ; WX 917 ; N a174 ; B 35 0 882 692 ;  
C 229 ; WX 930 ; N a175 ; B 35 84 896 608 ;  
C 230 ; WX 931 ; N a176 ; B 35 84 896 608 ;  
C 231 ; WX 463 ; N a177 ; B 35 -99 429 791 ;  
C 232 ; WX 883 ; N a178 ; B 35 71 848 623 ;  
C 233 ; WX 836 ; N a179 ; B 35 44 802 648 ;  
C 234 ; WX 836 ; N a193 ; B 35 44 802 648 ;  
C 235 ; WX 867 ; N a180 ; B 35 101 832 591 ;  
C 236 ; WX 867 ; N a199 ; B  
35 101 832 591 ;  
C 237 ; WX 696 ; N a181 ; B 35 44 661 648 ;  
C 238 ; WX 696 ; N a200 ; B 35 44 661 648 ;  
C 239 ; WX 874 ; N a182 ; B 35 77 840 619 ;  
C 241 ; WX 874 ; N a201 ; B 35 73 840 615 ;  
C 242 ; WX 760 ; N a183 ; B 35 0 725 692 ;  
C 243 ; WX 946 ; N a184 ; B 35 160 911 533 ;  
C 244 ; WX 771 ; N a197 ; B 34 37 736 655 ;  
C 245 ; WX 865 ; N a185 ; B 35 207 830 481 ;  
C 246 ; WX 771 ; N a194 ; B 34 37 736 655 ;  
C 247 ; WX 888 ; N a198 ; B 34 -19 853 712 ;  
C 248 ; WX 967 ; N a186 ; B 35 124 932 568 ;  
C 249 ; WX 888 ; N a195 ; B 34 -19 853 712 ;  
C 250 ; WX 831 ; N a187 ; B 35 113 796 579 ;  
C 251 ; WX 873 ; N a188 ; B 36 118 838 578 ;  
C 252 ; WX 927 ; N a189 ; B 35 150 891 542 ;  
C 253 ; WX 970 ; N a190 ; B 35 76 931 616 ;  
C 254 ; WX 918 ; N a191 ; B 34 99 884 593 ;  
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EndFontMetrics

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FontName Courier

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FamilyName Courier

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CharacterSet ExtendedRoman

FontBBox -23 -250 715 805

UnderlinePosition -100

UnderlineThickness 50

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EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 426

Ascender 629

Descender -157

StdHW 51

StdVW 51

StartCharMetrics 315

C 32 ; WX 600 ; N space ; B 0 0 0 0 ;

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C 34 ; WX 600 ; N quotedbl ; B 187 328 413 562 ;

C 35 ; WX 600 ; N numbersign ; B 93 -32 507 639 ;

C 36 ; WX 600 ; N dollar ; B 105 -126 496

662 ;

C 37 ; WX 600 ; N percent ; B 81 -15 518 622 ;

C 38 ; WX 600 ; N ampersand ; B 63 -15 538 543 ;

C 39 ; WX 600 ; N quoteright ; B 213 328 376 562 ;

C 40 ; WX 600 ; N parenleft ; B 269 -108 440 622 ;

C 41 ; WX 600 ; N parenright ; B 160 -108 331 622 ;

C 42 ; WX 600 ; N asterisk ; B 116 257 484 607 ;

C 43 ; WX 600 ; N plus ; B 80 44 520 470 ;

C 44 ; WX 600 ; N comma ; B 181 -112 344 122 ;

C 45 ; WX 600 ; N hyphen ; B 103 231 497 285 ;

C 46 ; WX 600 ; N period ; B 229 -15 371 109 ;

C 47 ; WX 600 ; N slash ; B 125 -80 475 629 ;

C 48 ; WX 600 ; N zero ; B 106 -15 494 622 ;

C 49 ; WX 600 ; N one ; B 96 0 505 622 ;

C 50 ; WX 600 ; N two ; B 70 0 471 622 ;

C 51 ; WX 600 ; N three ; B 75 -15 466 622 ;

C 52 ; WX 600 ; N four ; B 78 0 500 622 ;  
C 53 ; WX 600 ; N five ; B 92 -15 497 607 ;  
C 54 ; WX 600 ; N six ; B 111 -15 497 622 ;  
C 55 ; WX 600 ; N seven ; B 82 0 483 607 ;  
C 56 ; WX 600 ; N eight ; B 102 -15 498 622 ;  
C 57 ; WX 600 ; N nine ; B 96 -15 489 622 ;  
C 58 ;  
WX 600 ; N colon ; B 229 -15 371 385 ;  
C 59 ; WX 600 ; N semicolon ; B 181 -112 371 385 ;  
C 60 ; WX 600 ; N less ; B 41 42 519 472 ;  
C 61 ; WX 600 ; N equal ; B 80 138 520 376 ;  
C 62 ; WX 600 ; N greater ; B 66 42 544 472 ;  
C 63 ; WX 600 ; N question ; B 129 -15 492 572 ;  
C 64 ; WX 600 ; N at ; B 77 -15 533 622 ;  
C 65 ; WX 600 ; N A ; B 3 0 597 562 ;  
C 66 ; WX 600 ; N B ; B 43 0 559 562 ;  
C 67 ; WX 600 ; N C ; B 41 -18 540 580 ;  
C 68 ; WX 600 ; N D ; B 43 0 574 562 ;  
C 69 ; WX 600 ; N E ; B 53 0 550 562 ;  
C 70 ; WX 600 ; N F ; B 53 0 545 562 ;  
C 71 ; WX 600 ; N G ; B 31 -18 575 580 ;  
C 72 ; WX 600 ; N H ; B 32 0 568 562 ;  
C 73 ; WX 600 ; N I ; B 96 0 504 562 ;  
C 74 ; WX 600 ; N J ; B 34 -18 566 562 ;  
C 75 ; WX 600 ; N K ; B 38 0 582 562 ;  
C 76 ; WX 600 ; N L ; B 47 0 554 562 ;  
C 77 ; WX 600 ; N M ; B 4 0 596 562 ;  
C 78 ; WX 600 ; N N ; B 7 -13 593 562 ;  
C 79 ; WX 600 ; N O ; B 43 -18 557 580 ;  
C 80 ; WX 600 ; N P ; B 79 0 558 562 ;  
C 81 ; WX 600 ; N Q ; B 43 -138  
557 580 ;  
C 82 ; WX 600 ; N R ; B 38 0 588 562 ;  
C 83 ; WX 600 ; N S ; B 72 -20 529 580 ;  
C 84 ; WX 600 ; N T ; B 38 0 563 562 ;  
C 85 ; WX 600 ; N U ; B 17 -18 583 562 ;  
C 86 ; WX 600 ; N V ; B -4 -13 604 562 ;  
C 87 ; WX 600 ; N W ; B -3 -13 603 562 ;  
C 88 ; WX 600 ; N X ; B 23 0 577 562 ;  
C 89 ; WX 600 ; N Y ; B 24 0 576 562 ;  
C 90 ; WX 600 ; N Z ; B 86 0 514 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 269 -108 442 622 ;  
C 92 ; WX 600 ; N backslash ; B 118 -80 482 629 ;  
C 93 ; WX 600 ; N bracketright ; B 158 -108 331 622 ;  
C 94 ; WX 600 ; N asciicircum ; B 94 354 506 622 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 224 328 387 562 ;  
C 97 ; WX 600 ; N a ; B 53 -15 559 441 ;



C 98 ; WX 600 ; N b ; B 14 -15 575 629 ;  
C 99 ; WX 600 ; N c ; B 66 -15 529 441 ;  
C 100 ; WX 600 ; N d ; B 45 -15 591 629 ;  
C 101 ; WX 600 ; N e ; B 66 -15 548 441 ;  
C 102 ; WX 600 ; N f ; B 114 0 531 629 ; L i fi ; L l fl ;  
C 103 ; WX 600 ; N g ; B 45 -157  
566 441 ;  
C 104 ; WX 600 ; N h ; B 18 0 582 629 ;  
C 105 ; WX 600 ; N i ; B 95 0 505 657 ;  
C 106 ; WX 600 ; N j ; B 82 -157 410 657 ;  
C 107 ; WX 600 ; N k ; B 43 0 580 629 ;  
C 108 ; WX 600 ; N l ; B 95 0 505 629 ;  
C 109 ; WX 600 ; N m ; B -5 0 605 441 ;  
C 110 ; WX 600 ; N n ; B 26 0 575 441 ;  
C 111 ; WX 600 ; N o ; B 62 -15 538 441 ;  
C 112 ; WX 600 ; N p ; B 9 -157 555 441 ;  
C 113 ; WX 600 ; N q ; B 45 -157 591 441 ;  
C 114 ; WX 600 ; N r ; B 60 0 559 441 ;  
C 115 ; WX 600 ; N s ; B 80 -15 513 441 ;  
C 116 ; WX 600 ; N t ; B 87 -15 530 561 ;  
C 117 ; WX 600 ; N u ; B 21 -15 562 426 ;  
C 118 ; WX 600 ; N v ; B 10 -10 590 426 ;  
C 119 ; WX 600 ; N w ; B -4 -10 604 426 ;  
C 120 ; WX 600 ; N x ; B 20 0 580 426 ;  
C 121 ; WX 600 ; N y ; B 7 -157 592 426 ;  
C 122 ; WX 600 ; N z ; B 99 0 502 426 ;  
C 123 ; WX 600 ; N braceleft ; B 182 -108 437 622 ;  
C 124 ; WX 600 ; N bar ; B 275 -250 326 750 ;  
C 125 ; WX 600 ; N braceright ; B 163 -108 418 622 ;  
C 126 ; WX 600 ; N asciitilde ; B  
63 197 540 320 ;  
C 161 ; WX 600 ; N exclamdown ; B 236 -157 364 430 ;  
C 162 ; WX 600 ; N cent ; B 96 -49 500 614 ;  
C 163 ; WX 600 ; N sterling ; B 84 -21 521 611 ;  
C 164 ; WX 600 ; N fraction ; B 92 -57 509 665 ;  
C 165 ; WX 600 ; N yen ; B 26 0 574 562 ;  
C 166 ; WX 600 ; N florin ; B 4 -143 539 622 ;  
C 167 ; WX 600 ; N section ; B 113 -78 488 580 ;  
C 168 ; WX 600 ; N currency ; B 73 58 527 506 ;  
C 169 ; WX 600 ; N quotesingle ; B 259 328 341 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 143 328 471 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 37 70 563 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 149 70 451 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 149 70 451 446 ;  
C 174 ; WX 600 ; N fi ; B 3 0 597 629 ;  
C 175 ; WX 600 ; N fl ; B 3 0 597 629 ;  
C 177 ; WX 600 ; N endash ; B 75 231 525 285 ;  
C 178 ; WX 600 ; N dagger ; B 141 -78 459 580 ;

C 179 ; WX 600 ; N daggerdbl ; B 141 -78 459 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 222 189 378 327 ;  
C 182 ; WX 600 ; N paragraph ;  
B 50 -78 511 562 ;  
C 183 ; WX 600 ; N bullet ; B 172 130 428 383 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 213 -134 376 100 ;  
C 185 ; WX 600 ; N quotedblbase ; B 143 -134 457 100 ;  
C 186 ; WX 600 ; N quotedblright ; B 143 328 457 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 37 70 563 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 37 -15 563 111 ;  
C 189 ; WX 600 ; N perthousand ; B 3 -15 600 622 ;  
C 191 ; WX 600 ; N questiondown ; B 108 -157 471 430 ;  
C 193 ; WX 600 ; N grave ; B 151 497 378 672 ;  
C 194 ; WX 600 ; N acute ; B 242 497 469 672 ;  
C 195 ; WX 600 ; N circumflex ; B 124 477 476 654 ;  
C 196 ; WX 600 ; N tilde ; B 105 489 503 606 ;  
C 197 ; WX 600 ; N macron ; B 120 525 480 565 ;  
C 198 ; WX 600 ; N breve ; B 153 501 447 609 ;  
C 199 ; WX 600 ; N dotaccent ; B 249 537 352 640 ;  
C 200 ; WX 600 ; N dieresis ; B 148 537 453 640 ;  
C 202 ; WX 600 ; N ring ; B 218 463 382 627 ;  
C 203 ; WX 600 ; N cedilla ; B 224 -151 362 10 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 133 497 540 672 ;

C

206 ; WX 600 ; N ogonek ; B 211 -172 407 4 ;  
C 207 ; WX 600 ; N caron ; B 124 492 476 669 ;  
C 208 ; WX 600 ; N emdash ; B 0 231 600 285 ;  
C 225 ; WX 600 ; N AE ; B 3 0 550 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 156 249 442 580 ;  
C 232 ; WX 600 ; N Lslash ; B 47 0 554 562 ;  
C 233 ; WX 600 ; N Oslash ; B 43 -80 557 629 ;  
C 234 ; WX 600 ; N OE ; B 7 0 567 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 157 249 443 580 ;  
C 241 ; WX 600 ; N ae ; B 19 -15 570 441 ;  
C 245 ; WX 600 ; N dotlessi ; B 95 0 505 426 ;  
C 248 ; WX 600 ; N lslash ; B 95 0 505 629 ;  
C 249 ; WX 600 ; N oslash ; B 62 -80 538 506 ;  
C 250 ; WX 600 ; N oe ; B 19 -15 559 441 ;  
C 251 ; WX 600 ; N germandbls ; B 48 -15 588 629 ;  
C -1 ; WX 600 ; N Idieresis ; B 96 0 504 753 ;  
C -1 ; WX 600 ; N eacute ; B 66 -15 548 672 ;  
C -1 ; WX 600 ; N abreve ; B 53 -15 559 609 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B 21 -15 580 672 ;  
C -1 ; WX 600 ; N ecaron ; B 66 -15 548 669 ;  
C -1 ; WX 600 ; N Ydieresis ; B 24 0 576 753 ;  
;  
C -1 ; WX 600 ; N divide ; B 87 48 513 467 ;  
C -1 ; WX 600 ; N Yacute ; B 24 0 576 805 ;

C -1 ; WX 600 ; N Acircumflex ; B 3 0 597 787 ;  
 C -1 ; WX 600 ; N acute ; B 53 -15 559 672 ;  
 C -1 ; WX 600 ; N Ucircumflex ; B 17 -18 583 787 ;  
 C -1 ; WX 600 ; N yacute ; B 7 -157 592 672 ;  
 C -1 ; WX 600 ; N scommaaccent ; B 80 -250 513 441 ;  
 C -1 ; WX 600 ; N ecircumflex ; B 66 -15 548 654 ;  
 C -1 ; WX 600 ; N Uring ; B 17 -18 583 760 ;  
 C -1 ; WX 600 ; N Udieresis ; B 17 -18 583 753 ;  
 C -1 ; WX 600 ; N aogonek ; B 53 -172 587 441 ;  
 C -1 ; WX 600 ; N Uacute ; B 17 -18 583 805 ;  
 C -1 ; WX 600 ; N uogonek ; B 21 -172 590 426 ;  
 C -1 ; WX 600 ; N Edieresis ; B 53 0 550 753 ;  
 C -1 ; WX 600 ; N Dcroat ; B 30 0 574 562 ;  
 C -1 ; WX 600 ; N commaaccent ; B 198 -250 335 -58 ;  
 C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
 C -1 ; WX 600 ; N Emacron ; B 53 0 550 698 ;  
 C -1 ; WX 600 ; N ccaron ; B 66 -15 529 669 ;  
 C -1 ; WX 600 ; N aring ; B 53 -15 559 627 ;  
 C -1 ; WX 600 ; N Ncommaaccent  
 ; B 7 -250 593 562 ;  
 C -1 ; WX 600 ; N lacute ; B 95 0 505 805 ;  
 C -1 ; WX 600 ; N agrave ; B 53 -15 559 672 ;  
 C -1 ; WX 600 ; N Tcommaaccent ; B 38 -250 563 562 ;  
 C -1 ; WX 600 ; N Cacute ; B 41 -18 540 805 ;  
 C -1 ; WX 600 ; N atilde ; B 53 -15 559 606 ;  
 C -1 ; WX 600 ; N Edotaccent ; B 53 0 550 753 ;  
 C -1 ; WX 600 ; N scaron ; B 80 -15 513 669 ;  
 C -1 ; WX 600 ; N scedilla ; B 80 -151 513 441 ;  
 C -1 ; WX 600 ; N iacute ; B 95 0 505 672 ;  
 C -1 ; WX 600 ; N lozenge ; B 18 0 443 706 ;  
 C -1 ; WX 600 ; N Rcaron ; B 38 0 588 802 ;  
 C -1 ; WX 600 ; N Gcommaaccent ; B 31 -250 575 580 ;  
 C -1 ; WX 600 ; N ucircumflex ; B 21 -15 562 654 ;  
 C -1 ; WX 600 ; N acircumflex ; B 53 -15 559 654 ;  
 C -1 ; WX 600 ; N Amacron ; B 3 0 597 698 ;  
 C -1 ; WX 600 ; N rcaron ; B 60 0 559 669 ;  
 C -1 ; WX 600 ; N ccedilla ; B 66 -151 529 441 ;  
 C -1 ; WX 600 ; N Zdotaccent ; B 86 0 514 753 ;  
 C -1 ; WX 600 ; N Thorn ; B 79 0 538 562 ;  
 C -1 ; WX 600 ; N Omacron ; B 43 -18 557 698 ;  
 C -1 ; WX 600 ;  
 N Racute ; B 38 0 588 805 ;  
 C -1 ; WX 600 ; N Sacute ; B 72 -20 529 805 ;  
 C -1 ; WX 600 ; N dcaron ; B 45 -15 715 629 ;  
 C -1 ; WX 600 ; N Umacron ; B 17 -18 583 698 ;  
 C -1 ; WX 600 ; N uring ; B 21 -15 562 627 ;  
 C -1 ; WX 600 ; N threesuperior ; B 155 240 406 622 ;  
 C -1 ; WX 600 ; N Ograve ; B 43 -18 557 805 ;

C -1 ; WX 600 ; N Agrave ; B 3 0 597 805 ;  
 C -1 ; WX 600 ; N Abreve ; B 3 0 597 732 ;  
 C -1 ; WX 600 ; N multiply ; B 87 43 515 470 ;  
 C -1 ; WX 600 ; N uacute ; B 21 -15 562 672 ;  
 C -1 ; WX 600 ; N Tcaron ; B 38 0 563 802 ;  
 C -1 ; WX 600 ; N partialdiff ; B 17 -38 459 710 ;  
 C -1 ; WX 600 ; N ydieresis ; B 7 -157 592 620 ;  
 C -1 ; WX 600 ; N Nacute ; B 7 -13 593 805 ;  
 C -1 ; WX 600 ; N icircumflex ; B 94 0 505 654 ;  
 C -1 ; WX 600 ; N Ecircumflex ; B 53 0 550 787 ;  
 C -1 ; WX 600 ; N adieresis ; B 53 -15 559 620 ;  
 C -1 ; WX 600 ; N edieresis ; B 66 -15 548 620 ;  
 C -1 ; WX 600 ; N cacute ; B 66 -15 529 672 ;  
 C -1 ; WX 600 ; N nacute ; B 26 0 575 672 ;  
 C -1 ; WX 600  
 ; N umacron ; B 21 -15 562 565 ;  
 C -1 ; WX 600 ; N Ncaron ; B 7 -13 593 802 ;  
 C -1 ; WX 600 ; N Iacute ; B 96 0 504 805 ;  
 C -1 ; WX 600 ; N plusminus ; B 87 44 513 558 ;  
 C -1 ; WX 600 ; N brokenbar ; B 275 -175 326 675 ;  
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 C -1 ; WX 600 ; N Zacute ; B 86 0 514 805 ;  
 C -1 ; WX 600 ; N Zcaron ; B 86 0 514 802 ;  
 C -1 ; WX 600 ; N greaterequal ; B 98 0 502 710 ;  
 C -1 ; WX 600 ; N Eth ; B 30 0 574 562 ;  
 C -1 ; WX 600 ; N Ccedilla ; B 41 -151 540 580 ;  
 C -1 ; WX 600 ; N lcommaaccent ; B 95 -250 505 629 ;  
 C -1 ; WX 600 ; N tcaron ; B 87 -15 530 717 ;  
 C -1 ; WX 600 ; N eogonek ; B 66 -172 548 441 ;  
 C -1 ; WX 600 ; N Uogonek ; B 17 -172 583 562 ;  
 C -1 ;  
 WX 600 ; N Aacute ; B 3 0 597 805 ;  
 C -1 ; WX 600 ; N Adieresis ; B 3 0 597 753 ;  
 C -1 ; WX 600 ; N egrave ; B 66 -15 548 672 ;  
 C -1 ; WX 600 ; N zacute ; B 99 0 502 672 ;  
 C -1 ; WX 600 ; N iogonek ; B 95 -172 505 657 ;  
 C -1 ; WX 600 ; N Oacute ; B 43 -18 557 805 ;  
 C -1 ; WX 600 ; N oacute ; B 62 -15 538 672 ;  
 C -1 ; WX 600 ; N amacron ; B 53 -15 559 565 ;  
 C -1 ; WX 600 ; N sacute ; B 80 -15 513 672 ;  
 C -1 ; WX 600 ; N idieresis ; B 95 0 505 620 ;  
 C -1 ; WX 600 ; N Ocircumflex ; B 43 -18 557 787 ;

C -1 ; WX 600 ; N Ugrave ; B 17 -18 583 805 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 598 688 ;  
C -1 ; WX 600 ; N thorn ; B -6 -157 555 629 ;  
C -1 ; WX 600 ; N twosuperior ; B 177 249 424 622 ;  
C -1 ; WX 600 ; N Odieresis ; B 43 -18 557 753 ;  
C -1 ; WX 600 ; N mu ; B 21 -157 562 426 ;  
C -1 ; WX 600 ; N igrave ; B 95 0 505 672 ;  
C -1 ; WX 600 ; N ohungarumlaut ; B 62 -15 580 672 ;  
C -1 ; WX 600 ; N Eogonek ; B 53 -172 561 562 ;  
C -1 ; WX 600 ; N dcroat ; B 45 -15 591 629 ;  
C -1 ;  
WX 600 ; N threequarters ; B 8 -56 593 666 ;  
C -1 ; WX 600 ; N Scedilla ; B 72 -151 529 580 ;  
C -1 ; WX 600 ; N lcaron ; B 95 0 533 629 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 38 -250 582 562 ;  
C -1 ; WX 600 ; N Lacute ; B 47 0 554 805 ;  
C -1 ; WX 600 ; N trademark ; B -23 263 623 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 66 -15 548 620 ;  
C -1 ; WX 600 ; N Igrave ; B 96 0 504 805 ;  
C -1 ; WX 600 ; N Imacron ; B 96 0 504 698 ;  
C -1 ; WX 600 ; N Lcaron ; B 47 0 554 562 ;  
C -1 ; WX 600 ; N onehalf ; B 0 -57 611 665 ;  
C -1 ; WX 600 ; N lessequal ; B 98 0 502 710 ;  
C -1 ; WX 600 ; N ocircumflex ; B 62 -15 538 654 ;  
C -1 ; WX 600 ; N ntilde ; B 26 0 575 606 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 17 -18 590 805 ;  
C -1 ; WX 600 ; N Eacute ; B 53 0 550 805 ;  
C -1 ; WX 600 ; N emacron ; B 66 -15 548 565 ;  
C -1 ; WX 600 ; N gbreve ; B 45 -157 566 609 ;  
C -1 ; WX 600 ; N onequarter ; B 0 -57 600 665 ;  
C -1 ; WX 600 ; N Scaron ; B 72 -20 529 802 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 72  
-250 529 580 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 43 -18 580 805 ;  
C -1 ; WX 600 ; N degree ; B 123 269 477 622 ;  
C -1 ; WX 600 ; N ograve ; B 62 -15 538 672 ;  
C -1 ; WX 600 ; N Ccaron ; B 41 -18 540 802 ;  
C -1 ; WX 600 ; N ugrave ; B 21 -15 562 672 ;  
C -1 ; WX 600 ; N radical ; B 3 -15 597 792 ;  
C -1 ; WX 600 ; N Dcaron ; B 43 0 574 802 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 60 -250 559 441 ;  
C -1 ; WX 600 ; N Ntilde ; B 7 -13 593 729 ;  
C -1 ; WX 600 ; N otilde ; B 62 -15 538 606 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 38 -250 588 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 47 -250 554 562 ;  
C -1 ; WX 600 ; N Atilde ; B 3 0 597 729 ;  
C -1 ; WX 600 ; N Aogonek ; B 3 -172 608 562 ;  
C -1 ; WX 600 ; N Aring ; B 3 0 597 750 ;

C -1 ; WX 600 ; N Otilde ; B 43 -18 557 729 ;  
C -1 ; WX 600 ; N zdotaccent ; B 99 0 502 620 ;  
C -1 ; WX 600 ; N Ecaron ; B 53 0 550 802 ;  
C -1 ; WX 600 ; N Iogonek ; B 96 -172 504 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 43 -250 580 629 ;  
C -1 ; WX 600  
; N minus ; B 80 232 520 283 ;  
C -1 ; WX 600 ; N Icircumflex ; B 96 0 504 787 ;  
C -1 ; WX 600 ; N ncaron ; B 26 0 575 669 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 87 -250 530 561 ;  
C -1 ; WX 600 ; N logicalnot ; B 87 108 513 369 ;  
C -1 ; WX 600 ; N odieresis ; B 62 -15 538 620 ;  
C -1 ; WX 600 ; N udieresis ; B 21 -15 562 620 ;  
C -1 ; WX 600 ; N notequal ; B 15 -16 540 529 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 45 -157 566 708 ;  
C -1 ; WX 600 ; N eth ; B 62 -15 538 629 ;  
C -1 ; WX 600 ; N zcaron ; B 99 0 502 669 ;  
C -1 ; WX 600 ; N ncommaaccent ; B 26 -250 575 441 ;  
C -1 ; WX 600 ; N onesuperior ; B 172 249 428 622 ;  
C -1 ; WX 600 ; N imacron ; B 95 0 505 565 ;  
C -1 ; WX 600 ; N Euro ; B 0 0 0 0 ;  
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EndFontMetrics

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StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:56:55 1997

Comment UniqueID 43067

Comment VMusage 47727 58752

FontName Times-Italic

FullName Times Italic

FamilyName Times

Weight Medium

ItalicAngle -15.5

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -169 -217 1010 883

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 653

XHeight 441  
Ascender 683  
Descender -217  
StdHW 32  
StdVW 76  
StartCharMetrics 315  
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;  
C 33 ; WX 333 ; N exclam ; B 39 -11 302 667 ;  
C 34 ; WX 420 ; N quotedbl ; B 144 421 432 666 ;  
C 35 ; WX 500  
; N numbersign ; B 2 0 540 676 ;  
C 36 ; WX 500 ; N dollar ; B 31 -89 497 731 ;  
C 37 ; WX 833 ; N percent ; B 79 -13 790 676 ;  
C 38 ; WX 778 ; N ampersand ; B 76 -18 723 666 ;  
C 39 ; WX 333 ; N quoteright ; B 151 436 290 666 ;  
C 40 ; WX 333 ; N parenleft ; B 42 -181 315 669 ;  
C 41 ; WX 333 ; N parenright ; B 16 -180 289 669 ;  
C 42 ; WX 500 ; N asterisk ; B 128 255 492 666 ;  
C 43 ; WX 675 ; N plus ; B 86 0 590 506 ;  
C 44 ; WX 250 ; N comma ; B -4 -129 135 101 ;  
C 45 ; WX 333 ; N hyphen ; B 49 192 282 255 ;  
C 46 ; WX 250 ; N period ; B 27 -11 138 100 ;  
C 47 ; WX 278 ; N slash ; B -65 -18 386 666 ;  
C 48 ; WX 500 ; N zero ; B 32 -7 497 676 ;  
C 49 ; WX 500 ; N one ; B 49 0 409 676 ;  
C 50 ; WX 500 ; N two ; B 12 0 452 676 ;  
C 51 ; WX 500 ; N three ; B 15 -7 465 676 ;  
C 52 ; WX 500 ; N four ; B 1 0 479 676 ;  
C 53 ; WX 500 ; N five ; B 15 -7 491 666 ;  
C 54 ; WX 500 ; N six ; B 30 -7 521 686 ;  
C 55 ; WX 500 ; N seven ; B 75 -8 537 666 ;  
C 56 ; WX 500 ; N eight ; B 30 -7 493  
676 ;  
C 57 ; WX 500 ; N nine ; B 23 -17 492 676 ;  
C 58 ; WX 333 ; N colon ; B 50 -11 261 441 ;  
C 59 ; WX 333 ; N semicolon ; B 27 -129 261 441 ;  
C 60 ; WX 675 ; N less ; B 84 -8 592 514 ;  
C 61 ; WX 675 ; N equal ; B 86 120 590 386 ;  
C 62 ; WX 675 ; N greater ; B 84 -8 592 514 ;  
C 63 ; WX 500 ; N question ; B 132 -12 472 664 ;  
C 64 ; WX 920 ; N at ; B 118 -18 806 666 ;  
C 65 ; WX 611 ; N A ; B -51 0 564 668 ;  
C 66 ; WX 611 ; N B ; B -8 0 588 653 ;  
C 67 ; WX 667 ; N C ; B 66 -18 689 666 ;  
C 68 ; WX 722 ; N D ; B -8 0 700 653 ;  
C 69 ; WX 611 ; N E ; B -1 0 634 653 ;  
C 70 ; WX 611 ; N F ; B 8 0 645 653 ;  
C 71 ; WX 722 ; N G ; B 52 -18 722 666 ;

C 72 ; WX 722 ; N H ; B -8 0 767 653 ;  
C 73 ; WX 333 ; N I ; B -8 0 384 653 ;  
C 74 ; WX 444 ; N J ; B -6 -18 491 653 ;  
C 75 ; WX 667 ; N K ; B 7 0 722 653 ;  
C 76 ; WX 556 ; N L ; B -8 0 559 653 ;  
C 77 ; WX 833 ; N M ; B -18 0 873 653 ;  
C 78 ; WX 667 ; N N ; B -20 -15 727 653 ;  
C 79 ; WX 722 ; N O ; B 60 -18 699 666 ;  
C 80 ;  
WX 611 ; N P ; B 0 0 605 653 ;  
C 81 ; WX 722 ; N Q ; B 59 -182 699 666 ;  
C 82 ; WX 611 ; N R ; B -13 0 588 653 ;  
C 83 ; WX 500 ; N S ; B 17 -18 508 667 ;  
C 84 ; WX 556 ; N T ; B 59 0 633 653 ;  
C 85 ; WX 722 ; N U ; B 102 -18 765 653 ;  
C 86 ; WX 611 ; N V ; B 76 -18 688 653 ;  
C 87 ; WX 833 ; N W ; B 71 -18 906 653 ;  
C 88 ; WX 611 ; N X ; B -29 0 655 653 ;  
C 89 ; WX 556 ; N Y ; B 78 0 633 653 ;  
C 90 ; WX 556 ; N Z ; B -6 0 606 653 ;  
C 91 ; WX 389 ; N bracketleft ; B 21 -153 391 663 ;  
C 92 ; WX 278 ; N backslash ; B -41 -18 319 666 ;  
C 93 ; WX 389 ; N bracketright ; B 12 -153 382 663 ;  
C 94 ; WX 422 ; N asciicircum ; B 0 301 422 666 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 171 436 310 666 ;  
C 97 ; WX 500 ; N a ; B 17 -11 476 441 ;  
C 98 ; WX 500 ; N b ; B 23 -11 473 683 ;  
C 99 ; WX 444 ; N c ; B 30 -11 425 441 ;  
C 100 ; WX 500 ; N d ; B 15 -13 527 683 ;  
C 101 ; WX 444 ; N e ; B 31 -11 412 441 ;  
C 102 ; WX 278 ; N f ; B -147 -207  
424 678 ; L i f i ; L l f l ;  
C 103 ; WX 500 ; N g ; B 8 -206 472 441 ;  
C 104 ; WX 500 ; N h ; B 19 -9 478 683 ;  
C 105 ; WX 278 ; N i ; B 49 -11 264 654 ;  
C 106 ; WX 278 ; N j ; B -124 -207 276 654 ;  
C 107 ; WX 444 ; N k ; B 14 -11 461 683 ;  
C 108 ; WX 278 ; N l ; B 41 -11 279 683 ;  
C 109 ; WX 722 ; N m ; B 12 -9 704 441 ;  
C 110 ; WX 500 ; N n ; B 14 -9 474 441 ;  
C 111 ; WX 500 ; N o ; B 27 -11 468 441 ;  
C 112 ; WX 500 ; N p ; B -75 -205 469 441 ;  
C 113 ; WX 500 ; N q ; B 25 -209 483 441 ;  
C 114 ; WX 389 ; N r ; B 45 0 412 441 ;  
C 115 ; WX 389 ; N s ; B 16 -13 366 442 ;  
C 116 ; WX 278 ; N t ; B 37 -11 296 546 ;  
C 117 ; WX 500 ; N u ; B 42 -11 475 441 ;



C 118 ; WX 444 ; N v ; B 21 -18 426 441 ;  
C 119 ; WX 667 ; N w ; B 16 -18 648 441 ;  
C 120 ; WX 444 ; N x ; B -27 -11 447 441 ;  
C 121 ; WX 444 ; N y ; B -24 -206 426 441 ;  
C 122 ; WX 389 ; N z ; B -2 -81 380 428 ;  
C 123 ; WX 400 ; N braceleft ; B 51 -177 407 687 ;  
C 124 ; WX 275 ; N bar ; B 105 -217 171 783 ;  
C 125  
; WX 400 ; N braceright ; B -7 -177 349 687 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 389 ; N exclamdown ; B 59 -205 322 473 ;  
C 162 ; WX 500 ; N cent ; B 77 -143 472 560 ;  
C 163 ; WX 500 ; N sterling ; B 10 -6 517 670 ;  
C 164 ; WX 167 ; N fraction ; B -169 -10 337 676 ;  
C 165 ; WX 500 ; N yen ; B 27 0 603 653 ;  
C 166 ; WX 500 ; N florin ; B 25 -182 507 682 ;  
C 167 ; WX 500 ; N section ; B 53 -162 461 666 ;  
C 168 ; WX 500 ; N currency ; B -22 53 522 597 ;  
C 169 ; WX 214 ; N quotesingle ; B 132 421 241 666 ;  
C 170 ; WX 556 ; N quotedblleft ; B 166 436 514 666 ;  
C 171 ; WX 500 ; N guillemotleft ; B 53 37 445 403 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 37 281 403 ;  
C 173 ; WX 333 ; N guilsinglright ; B 52 37 282 403 ;  
C 174 ; WX 500 ; N fi ; B -141 -207 481 681 ;  
C 175 ; WX 500 ; N fl ; B -141 -204 518 682 ;  
C 177 ; WX 500 ; N endash ; B -6 197 505 243 ;  
C 178 ; WX 500 ; N dagger ; B 101 -159 488 666 ;  
C 179 ; WX 500 ; N daggerdbl ; B 22 -143 491  
666 ;  
C 180 ; WX 250 ; N periodcentered ; B 70 199 181 310 ;  
C 182 ; WX 523 ; N paragraph ; B 55 -123 616 653 ;  
C 183 ; WX 350 ; N bullet ; B 40 191 310 461 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 44 -129 183 101 ;  
C 185 ; WX 556 ; N quotedblbase ; B 57 -129 405 101 ;  
C 186 ; WX 556 ; N quotedblright ; B 151 436 499 666 ;  
C 187 ; WX 500 ; N guillemotright ; B 55 37 447 403 ;  
C 188 ; WX 889 ; N ellipsis ; B 57 -11 762 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 25 -19 1010 706 ;  
C 191 ; WX 500 ; N questiondown ; B 28 -205 368 471 ;  
C 193 ; WX 333 ; N grave ; B 121 492 311 664 ;  
C 194 ; WX 333 ; N acute ; B 180 494 403 664 ;  
C 195 ; WX 333 ; N circumflex ; B 91 492 385 661 ;  
C 196 ; WX 333 ; N tilde ; B 100 517 427 624 ;  
C 197 ; WX 333 ; N macron ; B 99 532 411 583 ;  
C 198 ; WX 333 ; N breve ; B 117 492 418 650 ;  
C 199 ; WX 333 ; N dotaccent ; B 207 548 305 646 ;  
C 200 ; WX 333 ; N dieresis ; B 107 548 405 646 ;  
C 202 ; WX 333 ; N ring ; B 155 492 355 691 ;

C 203 ; WX  
333 ; N cedilla ; B -30 -217 182 0 ;  
C 205 ; WX 333 ; N hungarumlaut ; B 93 494 486 664 ;  
C 206 ; WX 333 ; N ogonek ; B 20 -169 203 40 ;  
C 207 ; WX 333 ; N caron ; B 121 492 426 661 ;  
C 208 ; WX 889 ; N emdash ; B -6 197 894 243 ;  
C 225 ; WX 889 ; N AE ; B -27 0 911 653 ;  
C 227 ; WX 276 ; N ordfeminine ; B 42 406 352 676 ;  
C 232 ; WX 556 ; N Lslash ; B -8 0 559 653 ;  
C 233 ; WX 722 ; N Oslash ; B 60 -105 699 722 ;  
C 234 ; WX 944 ; N OE ; B 49 -8 964 666 ;  
C 235 ; WX 310 ; N ordmasculine ; B 67 406 362 676 ;  
C 241 ; WX 667 ; N ae ; B 23 -11 640 441 ;  
C 245 ; WX 278 ; N dotlessi ; B 49 -11 235 441 ;  
C 248 ; WX 278 ; N lslash ; B 41 -11 312 683 ;  
C 249 ; WX 500 ; N oslash ; B 28 -135 469 554 ;  
C 250 ; WX 667 ; N oe ; B 20 -12 646 441 ;  
C 251 ; WX 500 ; N germandbls ; B -168 -207 493 679 ;  
C -1 ; WX 333 ; N Idieresis ; B -8 0 435 818 ;  
C -1 ; WX 444 ; N eacute ; B 31 -11 459 664 ;  
C -1 ; WX 500 ; N abreve ; B 17 -11 502 650 ;  
C -1 ; WX 500 ; N uhungarumlaut ; B 42 -11  
580 664 ;  
C -1 ; WX 444 ; N ecaron ; B 31 -11 482 661 ;  
C -1 ; WX 556 ; N Ydieresis ; B 78 0 633 818 ;  
C -1 ; WX 675 ; N divide ; B 86 -11 590 517 ;  
C -1 ; WX 556 ; N Yacute ; B 78 0 633 876 ;  
C -1 ; WX 611 ; N Acircumflex ; B -51 0 564 873 ;  
C -1 ; WX 500 ; N aacute ; B 17 -11 487 664 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 102 -18 765 873 ;  
C -1 ; WX 444 ; N yacute ; B -24 -206 459 664 ;  
C -1 ; WX 389 ; N scommaaccent ; B 16 -217 366 442 ;  
C -1 ; WX 444 ; N ecircumflex ; B 31 -11 441 661 ;  
C -1 ; WX 722 ; N Uring ; B 102 -18 765 883 ;  
C -1 ; WX 722 ; N Udieresis ; B 102 -18 765 818 ;  
C -1 ; WX 500 ; N aogonek ; B 17 -169 476 441 ;  
C -1 ; WX 722 ; N Uacute ; B 102 -18 765 876 ;  
C -1 ; WX 500 ; N uogonek ; B 42 -169 477 441 ;  
C -1 ; WX 611 ; N Edieresis ; B -1 0 634 818 ;  
C -1 ; WX 722 ; N Dcroat ; B -8 0 700 653 ;  
C -1 ; WX 250 ; N commaaccent ; B 8 -217 133 -50 ;  
C -1 ; WX 760 ; N copyright ; B 41 -18 719 666 ;  
C -1 ; WX 611 ; N Emacron ; B -1 0 634 795 ;  
C -1 ; WX  
444 ; N ccaron ; B 30 -11 482 661 ;  
C -1 ; WX 500 ; N aring ; B 17 -11 476 691 ;  
C -1 ; WX 667 ; N Ncommaaccent ; B -20 -187 727 653 ;  
C -1 ; WX 278 ; N lacute ; B 41 -11 395 876 ;

C -1 ; WX 500 ; N agrave ; B 17 -11 476 664 ;  
 C -1 ; WX 556 ; N Tcommaaccent ; B 59 -217 633 653 ;  
 C -1 ; WX 667 ; N Cacute ; B 66 -18 690 876 ;  
 C -1 ; WX 500 ; N atilde ; B 17 -11 511 624 ;  
 C -1 ; WX 611 ; N Edotaccent ; B -1 0 634 818 ;  
 C -1 ; WX 389 ; N scaron ; B 16 -13 454 661 ;  
 C -1 ; WX 389 ; N scedilla ; B 16 -217 366 442 ;  
 C -1 ; WX 278 ; N iacute ; B 49 -11 355 664 ;  
 C -1 ; WX 471 ; N lozenge ; B 13 0 459 724 ;  
 C -1 ; WX 611 ; N Rcaron ; B -13 0 588 873 ;  
 C -1 ; WX 722 ; N Gcommaaccent ; B 52 -217 722 666 ;  
 C -1 ; WX 500 ; N ucircumflex ; B 42 -11 475 661 ;  
 C -1 ; WX 500 ; N acircumflex ; B 17 -11 476 661 ;  
 C -1 ; WX 611 ; N Amacron ; B -51 0 564 795 ;  
 C -1 ; WX 389 ; N rcaron ; B 45 0 434 661 ;  
 C -1 ; WX 444 ; N ccedilla ; B 30 -217 425 441 ;  
 C -1 ; WX 556 ; N Zdotaccent ; B -6  
 0 606 818 ;  
 C -1 ; WX 611 ; N Thorn ; B 0 0 569 653 ;  
 C -1 ; WX 722 ; N Omacron ; B 60 -18 699 795 ;  
 C -1 ; WX 611 ; N Racute ; B -13 0 588 876 ;  
 C -1 ; WX 500 ; N Sacute ; B 17 -18 508 876 ;  
 C -1 ; WX 544 ; N dcaron ; B 15 -13 658 683 ;  
 C -1 ; WX 722 ; N Umacron ; B 102 -18 765 795 ;  
 C -1 ; WX 500 ; N uring ; B 42 -11 475 691 ;  
 C -1 ; WX 300 ; N threesuperior ; B 43 268 339 676 ;  
 C -1 ; WX 722 ; N Ograve ; B 60 -18 699 876 ;  
 C -1 ; WX 611 ; N Agrave ; B -51 0 564 876 ;  
 C -1 ; WX 611 ; N Abreve ; B -51 0 564 862 ;  
 C -1 ; WX 675 ; N multiply ; B 93 8 582 497 ;  
 C -1 ; WX 500 ; N uacute ; B 42 -11 477 664 ;  
 C -1 ; WX 556 ; N Tcaron ; B 59 0 633 873 ;  
 C -1 ; WX 476 ; N partialdiff ; B 17 -38 459 710 ;  
 C -1 ; WX 444 ; N ydieresis ; B -24 -206 441 606 ;  
 C -1 ; WX 667 ; N Nacute ; B -20 -15 727 876 ;  
 C -1 ; WX 278 ; N icircumflex ; B 33 -11 327 661 ;  
 C -1 ; WX 611 ; N Ecircumflex ; B -1 0 634 873 ;  
 C -1 ; WX 500 ; N adieresis ; B 17 -11 489 606 ;  
 C -1 ; WX 444 ; N edieresis  
 ; B 31 -11 451 606 ;  
 C -1 ; WX 444 ; N cacute ; B 30 -11 459 664 ;  
 C -1 ; WX 500 ; N nacute ; B 14 -9 477 664 ;  
 C -1 ; WX 500 ; N umacron ; B 42 -11 485 583 ;  
 C -1 ; WX 667 ; N Ncaron ; B -20 -15 727 873 ;  
 C -1 ; WX 333 ; N Iacute ; B -8 0 433 876 ;  
 C -1 ; WX 675 ; N plusminus ; B 86 0 590 506 ;  
 C -1 ; WX 275 ; N brokenbar ; B 105 -142 171 708 ;  
 C -1 ; WX 760 ; N registered ; B 41 -18 719 666 ;

C -1 ; WX 722 ; N Gbreve ; B 52 -18 722 862 ;  
 C -1 ; WX 333 ; N Idotaccent ; B -8 0 384 818 ;  
 C -1 ; WX 600 ; N summation ; B 15 -10 585 706 ;  
 C -1 ; WX 611 ; N Egrave ; B -1 0 634 876 ;  
 C -1 ; WX 389 ; N racute ; B 45 0 431 664 ;  
 C -1 ; WX 500 ; N omacron ; B 27 -11 495 583 ;  
 C -1 ; WX 556 ; N Zacute ; B -6 0 606 876 ;  
 C -1 ; WX 556 ; N Zcaron ; B -6 0 606 873 ;  
 C -1 ; WX 549 ; N greaterequal ; B 26 0 523 658 ;  
 C -1 ; WX 722 ; N Eth ; B -8 0 700 653 ;  
 C -1 ; WX 667 ; N Ccedilla ; B 66 -217 689 666 ;  
 C -1 ; WX 278 ; N lcommaaccent ; B 22 -217 279 683 ;  
 C -1 ; WX 300 ; N  
 tcaron ; B 37 -11 407 681 ;  
 C -1 ; WX 444 ; N eogonek ; B 31 -169 412 441 ;  
 C -1 ; WX 722 ; N Uogonek ; B 102 -184 765 653 ;  
 C -1 ; WX 611 ; N Aacute ; B -51 0 564 876 ;  
 C -1 ; WX 611 ; N Adieresis ; B -51 0 564 818 ;  
 C -1 ; WX 444 ; N egrave ; B 31 -11 412 664 ;  
 C -1 ; WX 389 ; N zacute ; B -2 -81 431 664 ;  
 C -1 ; WX 278 ; N iogonek ; B 49 -169 264 654 ;  
 C -1 ; WX 722 ; N Oacute ; B 60 -18 699 876 ;  
 C -1 ; WX 500 ; N oacute ; B 27 -11 487 664 ;  
 C -1 ; WX 500 ; N amacron ; B 17 -11 495 583 ;  
 C -1 ; WX 389 ; N sacute ; B 16 -13 431 664 ;  
 C -1 ; WX 278 ; N idieresis ; B 49 -11 352 606 ;  
 C -1 ; WX 722 ; N Ocircumflex ; B 60 -18 699 873 ;  
 C -1 ; WX 722 ; N Ugrave ; B 102 -18 765 876 ;  
 C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
 C -1 ; WX 500 ; N thorn ; B -75 -205 469 683 ;  
 C -1 ; WX 300 ; N twosuperior ; B 33 271 324 676 ;  
 C -1 ; WX 722 ; N Odieresis ; B 60 -18 699 818 ;  
 C -1 ; WX 500 ; N mu ; B -30 -209 497 428 ;  
 C -1 ; WX 278 ; N igrave ; B 49 -11 284 664 ;  
 C -1 ; WX  
 500 ; N ohungarumlaut ; B 27 -11 590 664 ;  
 C -1 ; WX 611 ; N Eogonek ; B -1 -169 634 653 ;  
 C -1 ; WX 500 ; N dcroat ; B 15 -13 572 683 ;  
 C -1 ; WX 750 ; N threequarters ; B 23 -10 736 676 ;  
 C -1 ; WX 500 ; N Scedilla ; B 17 -217 508 667 ;  
 C -1 ; WX 300 ; N lcaron ; B 41 -11 407 683 ;  
 C -1 ; WX 667 ; N Kcommaaccent ; B 7 -217 722 653 ;  
 C -1 ; WX 556 ; N Lacute ; B -8 0 559 876 ;  
 C -1 ; WX 980 ; N trademark ; B 30 247 957 653 ;  
 C -1 ; WX 444 ; N edotaccent ; B 31 -11 412 606 ;  
 C -1 ; WX 333 ; N Igrave ; B -8 0 384 876 ;  
 C -1 ; WX 333 ; N Imacron ; B -8 0 441 795 ;  
 C -1 ; WX 611 ; N Lcaron ; B -8 0 586 653 ;

C -1 ; WX 750 ; N onehalf ; B 34 -10 749 676 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 658 ;  
C -1 ; WX 500 ; N ocircumflex ; B 27 -11 468 661 ;  
C -1 ; WX 500 ; N ntilde ; B 14 -9 476 624 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 102 -18 765 876 ;  
C -1 ; WX 611 ; N Eacute ; B -1 0 634 876 ;  
C -1 ; WX 444 ; N emacron ; B 31 -11 457 583 ;  
C -1 ; WX 500 ; N gbreve ; B 8 -206  
487 650 ;  
C -1 ; WX 750 ; N onequarter ; B 33 -10 736 676 ;  
C -1 ; WX 500 ; N Scaron ; B 17 -18 520 873 ;  
C -1 ; WX 500 ; N Scommaaccent ; B 17 -217 508 667 ;  
C -1 ; WX 722 ; N Ohungarumlaut ; B 60 -18 699 876 ;  
C -1 ; WX 400 ; N degree ; B 101 390 387 676 ;  
C -1 ; WX 500 ; N ograve ; B 27 -11 468 664 ;  
C -1 ; WX 667 ; N Ccaron ; B 66 -18 689 873 ;  
C -1 ; WX 500 ; N ugrave ; B 42 -11 475 664 ;  
C -1 ; WX 453 ; N radical ; B 2 -60 452 768 ;  
C -1 ; WX 722 ; N Dcaron ; B -8 0 700 873 ;  
C -1 ; WX 389 ; N rcommaaccent ; B -3 -217 412 441 ;  
C -1 ; WX 667 ; N Ntilde ; B -20 -15 727 836 ;  
C -1 ; WX 500 ; N otilde ; B 27 -11 496 624 ;  
C -1 ; WX 611 ; N Rcommaaccent ; B -13 -187 588 653 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B -8 -217 559 653 ;  
C -1 ; WX 611 ; N Atilde ; B -51 0 566 836 ;  
C -1 ; WX 611 ; N Aogonek ; B -51 -169 566 668 ;  
C -1 ; WX 611 ; N Aring ; B -51 0 564 883 ;  
C -1 ; WX 722 ; N Otilde ; B 60 -18 699 836 ;  
C -1 ; WX 389 ; N zdotaccent ; B -2 -81 380 606 ;  
C  
-1 ; WX 611 ; N Ecaron ; B -1 0 634 873 ;  
C -1 ; WX 333 ; N Iogonek ; B -8 -169 384 653 ;  
C -1 ; WX 444 ; N kcommaaccent ; B 14 -187 461 683 ;  
C -1 ; WX 675 ; N minus ; B 86 220 590 286 ;  
C -1 ; WX 333 ; N Icircumflex ; B -8 0 425 873 ;  
C -1 ; WX 500 ; N ncaron ; B 14 -9 510 661 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 2 -217 296 546 ;  
C -1 ; WX 675 ; N logicalnot ; B 86 108 590 386 ;  
C -1 ; WX 500 ; N odieresis ; B 27 -11 489 606 ;  
C -1 ; WX 500 ; N udieresis ; B 42 -11 479 606 ;  
C -1 ; WX 549 ; N notequal ; B 12 -29 537 541 ;  
C -1 ; WX 500 ; N gcommaaccent ; B 8 -206 472 706 ;  
C -1 ; WX 500 ; N eth ; B 27 -11 482 683 ;  
C -1 ; WX 389 ; N zcaron ; B -2 -81 434 661 ;  
C -1 ; WX 500 ; N ncommaaccent ; B 14 -187 474 441 ;  
C -1 ; WX 300 ; N onesuperior ; B 43 271 284 676 ;  
C -1 ; WX 278 ; N imacron ; B 46 -11 311 583 ;  
C -1 ; WX 500 ; N Euro ; B 0 0 0 0 ;

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KPX A Cacute -30  
KPX A Ccaron -30  
KPX A Ccedilla -30  
KPX  
A G -35  
KPX A Gbreve -35  
KPX A Gcommaaccent -35  
KPX A O -40  
KPX A Oacute -40  
KPX A Ocircumflex -40  
KPX A Odieresis -40  
KPX A Ograve -40  
KPX A Ohungarumlaut -40  
KPX A Omacron -40  
KPX A Oslash -40  
KPX A Otilde -40  
KPX A Q -40  
KPX A T -37  
KPX A Tcaron -37  
KPX A Tcommaaccent -37  
KPX A U -50  
KPX A Uacute -50  
KPX A Ucircumflex -50  
KPX A Udieresis -50  
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KPX A Umacron -50  
KPX A Uogonek -50  
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KPX A V -105  
KPX A W -95  
KPX A Y -55  
KPX A Yacute -55  
KPX A Ydieresis -55  
KPX A quoteright -37  
KPX A u -20  
KPX A uacute -20  
KPX A ucircumflex -20  
KPX A udieresis -20  
KPX A ugrave -20  
KPX A uhungarumlaut -20  
KPX A umacron -20  
KPX A uogonek -20  
KPX A uring -20

KPX A v -55  
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KPX Udieresis Aogonek -40

KPX Udieresis Aring -40

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KPX quoteright rcommaaccent -25  
KPX quoteright s -40  
KPX quoteright sacute -40  
KPX quoteright scaron -40  
KPX quoteright scedilla -40  
KPX quoteright scommaaccent -40  
KPX quoteright  
space -111  
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KPX quoteright tcommaaccent -30

KPX quoteright v -10

KPX r a -15

KPX r aacute -15

KPX r abreve -15

KPX r acircumflex -15

KPX r adieresis -15

KPX r agrave -15

KPX r amacron -15

KPX r aogonek -15

KPX r aring -15

KPX r atilde -15

KPX r c -37

KPX r cacute -37

KPX r ccaron -37

KPX r ccedilla -37

KPX r comma -111

KPX r d -37

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KPX r g -37

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KPX r hyphen -20

KPX r o -45

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KPX racute ograve -45  
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-10

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KPX y period -55  
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EndKernData  
EndFontMetrics

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Comment Creation Date: Thu May 1 12:49:17 1997

Comment UniqueID 43068

Comment VMusage 43909 54934

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FullName Times Roman

FamilyName Times

Weight Roman

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -168 -218 1000 898

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 662

XHeight 450

Ascender 683

Descender -217

StdHW 28

StdVW 84

StartCharMetrics 315

C 32 ; WX 250 ; N space ; B 0 0 0 0 ;

C 33 ; WX 333 ; N exclam ; B 130 -9 238 676 ;

C 34 ; WX 408 ; N quotedbl ; B 77 431 331 676 ;

C 35 ; WX 500 ; N numbersign  
; B 5 0 496 662 ;

C 36 ; WX 500 ; N dollar ; B 44 -87 457 727 ;

C 37 ; WX 833 ; N percent ; B 61 -13 772 676 ;

C 38 ; WX 778 ; N ampersand ; B 42 -13 750 676 ;

C 39 ; WX 333 ; N quoteright ; B 79 433 218 676 ;

C 40 ; WX 333 ; N parenleft ; B 48 -177 304 676 ;

C 41 ; WX 333 ; N parenright ; B 29 -177 285 676 ;

C 42 ; WX 500 ; N asterisk ; B 69 265 432 676 ;

C 43 ; WX 564 ; N plus ; B 30 0 534 506 ;

C 44 ; WX 250 ; N comma ; B 56 -141 195 102 ;

C 45 ; WX 333 ; N hyphen ; B 39 194 285 257 ;

C 46 ; WX 250 ; N period ; B 70 -11 181 100 ;

C 47 ; WX 278 ; N slash ; B -9 -14 287 676 ;

C 48 ; WX 500 ; N zero ; B 24 -14 476 676 ;

C 49 ; WX 500 ; N one ; B 111 0 394 676 ;

C 50 ; WX 500 ; N two ; B 30 0 475 676 ;

C 51 ; WX 500 ; N three ; B 43 -14 431 676 ;

C 52 ; WX 500 ; N four ; B 12 0 472 676 ;

C 53 ; WX 500 ; N five ; B 32 -14 438 688 ;

C 54 ; WX 500 ; N six ; B 34 -14 468 684 ;

C 55 ; WX 500 ; N seven ; B 20 -8 449 662 ;

C 56 ; WX 500 ; N eight ; B 56 -14 445 676  
;

C 57 ; WX 500 ; N nine ; B 30 -22 459 676 ;

C 58 ; WX 278 ; N colon ; B 81 -11 192 459 ;

C 59 ; WX 278 ; N semicolon ; B 80 -141 219 459 ;

C 60 ; WX 564 ; N less ; B 28 -8 536 514 ;

C 61 ; WX 564 ; N equal ; B 30 120 534 386 ;

C 62 ; WX 564 ; N greater ; B 28 -8 536 514 ;

C 63 ; WX 444 ; N question ; B 68 -8 414 676 ;



C 64 ; WX 921 ; N at ; B 116 -14 809 676 ;  
C 65 ; WX 722 ; N A ; B 15 0 706 674 ;  
C 66 ; WX 667 ; N B ; B 17 0 593 662 ;  
C 67 ; WX 667 ; N C ; B 28 -14 633 676 ;  
C 68 ; WX 722 ; N D ; B 16 0 685 662 ;  
C 69 ; WX 611 ; N E ; B 12 0 597 662 ;  
C 70 ; WX 556 ; N F ; B 12 0 546 662 ;  
C 71 ; WX 722 ; N G ; B 32 -14 709 676 ;  
C 72 ; WX 722 ; N H ; B 19 0 702 662 ;  
C 73 ; WX 333 ; N I ; B 18 0 315 662 ;  
C 74 ; WX 389 ; N J ; B 10 -14 370 662 ;  
C 75 ; WX 722 ; N K ; B 34 0 723 662 ;  
C 76 ; WX 611 ; N L ; B 12 0 598 662 ;  
C 77 ; WX 889 ; N M ; B 12 0 863 662 ;  
C 78 ; WX 722 ; N N ; B 12 -11 707 662 ;  
C 79 ; WX 722 ; N O ; B 34 -14 688 676 ;  
C 80 ; WX 556  
; N P ; B 16 0 542 662 ;  
C 81 ; WX 722 ; N Q ; B 34 -178 701 676 ;  
C 82 ; WX 667 ; N R ; B 17 0 659 662 ;  
C 83 ; WX 556 ; N S ; B 42 -14 491 676 ;  
C 84 ; WX 611 ; N T ; B 17 0 593 662 ;  
C 85 ; WX 722 ; N U ; B 14 -14 705 662 ;  
C 86 ; WX 722 ; N V ; B 16 -11 697 662 ;  
C 87 ; WX 944 ; N W ; B 5 -11 932 662 ;  
C 88 ; WX 722 ; N X ; B 10 0 704 662 ;  
C 89 ; WX 722 ; N Y ; B 22 0 703 662 ;  
C 90 ; WX 611 ; N Z ; B 9 0 597 662 ;  
C 91 ; WX 333 ; N bracketleft ; B 88 -156 299 662 ;  
C 92 ; WX 278 ; N backslash ; B -9 -14 287 676 ;  
C 93 ; WX 333 ; N bracketright ; B 34 -156 245 662 ;  
C 94 ; WX 469 ; N asciicircum ; B 24 297 446 662 ;  
C 95 ; WX 500 ; N underscore ; B 0 -125 500 -75 ;  
C 96 ; WX 333 ; N quoteleft ; B 115 433 254 676 ;  
C 97 ; WX 444 ; N a ; B 37 -10 442 460 ;  
C 98 ; WX 500 ; N b ; B 3 -10 468 683 ;  
C 99 ; WX 444 ; N c ; B 25 -10 412 460 ;  
C 100 ; WX 500 ; N d ; B 27 -10 491 683 ;  
C 101 ; WX 444 ; N e ; B 25 -10 424 460 ;  
C 102 ; WX 333 ; N f ; B 20 0 383 683 ; L i  
fi ; L l fl ;  
C 103 ; WX 500 ; N g ; B 28 -218 470 460 ;  
C 104 ; WX 500 ; N h ; B 9 0 487 683 ;  
C 105 ; WX 278 ; N i ; B 16 0 253 683 ;  
C 106 ; WX 278 ; N j ; B -70 -218 194 683 ;  
C 107 ; WX 500 ; N k ; B 7 0 505 683 ;  
C 108 ; WX 278 ; N l ; B 19 0 257 683 ;  
C 109 ; WX 778 ; N m ; B 16 0 775 460 ;

C 110 ; WX 500 ; N n ; B 16 0 485 460 ;  
C 111 ; WX 500 ; N o ; B 29 -10 470 460 ;  
C 112 ; WX 500 ; N p ; B 5 -217 470 460 ;  
C 113 ; WX 500 ; N q ; B 24 -217 488 460 ;  
C 114 ; WX 333 ; N r ; B 5 0 335 460 ;  
C 115 ; WX 389 ; N s ; B 51 -10 348 460 ;  
C 116 ; WX 278 ; N t ; B 13 -10 279 579 ;  
C 117 ; WX 500 ; N u ; B 9 -10 479 450 ;  
C 118 ; WX 500 ; N v ; B 19 -14 477 450 ;  
C 119 ; WX 722 ; N w ; B 21 -14 694 450 ;  
C 120 ; WX 500 ; N x ; B 17 0 479 450 ;  
C 121 ; WX 500 ; N y ; B 14 -218 475 450 ;  
C 122 ; WX 444 ; N z ; B 27 0 418 450 ;  
C 123 ; WX 480 ; N braceleft ; B 100 -181 350 680 ;  
C 124 ; WX 200 ; N bar ; B 67 -218 133 782 ;  
C 125 ; WX 480 ; N braceright ; B 130 -181  
380 680 ;  
C 126 ; WX 541 ; N asciitilde ; B 40 183 502 323 ;  
C 161 ; WX 333 ; N exclamdown ; B 97 -218 205 467 ;  
C 162 ; WX 500 ; N cent ; B 53 -138 448 579 ;  
C 163 ; WX 500 ; N sterling ; B 12 -8 490 676 ;  
C 164 ; WX 167 ; N fraction ; B -168 -14 331 676 ;  
C 165 ; WX 500 ; N yen ; B -53 0 512 662 ;  
C 166 ; WX 500 ; N florin ; B 7 -189 490 676 ;  
C 167 ; WX 500 ; N section ; B 70 -148 426 676 ;  
C 168 ; WX 500 ; N currency ; B -22 58 522 602 ;  
C 169 ; WX 180 ; N quotesingle ; B 48 431 133 676 ;  
C 170 ; WX 444 ; N quotedblleft ; B 43 433 414 676 ;  
C 171 ; WX 500 ; N guillemotleft ; B 42 33 456 416 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 63 33 285 416 ;  
C 173 ; WX 333 ; N guilsinglright ; B 48 33 270 416 ;  
C 174 ; WX 556 ; N fi ; B 31 0 521 683 ;  
C 175 ; WX 556 ; N fl ; B 32 0 521 683 ;  
C 177 ; WX 500 ; N endash ; B 0 201 500 250 ;  
C 178 ; WX 500 ; N dagger ; B 59 -149 442 676 ;  
C 179 ; WX 500 ; N daggerdbl ; B 58 -153 442 676 ;  
C 180 ; WX 250 ; N periodcentered ; B 70  
199 181 310 ;  
C 182 ; WX 453 ; N paragraph ; B -22 -154 450 662 ;  
C 183 ; WX 350 ; N bullet ; B 40 196 310 466 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 79 -141 218 102 ;  
C 185 ; WX 444 ; N quotedblbase ; B 45 -141 416 102 ;  
C 186 ; WX 444 ; N quotedblright ; B 30 433 401 676 ;  
C 187 ; WX 500 ; N guillemotright ; B 44 33 458 416 ;  
C 188 ; WX 1000 ; N ellipsis ; B 111 -11 888 100 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 706 ;  
C 191 ; WX 444 ; N questiondown ; B 30 -218 376 466 ;  
C 193 ; WX 333 ; N grave ; B 19 507 242 678 ;

C 194 ; WX 333 ; N acute ; B 93 507 317 678 ;  
C 195 ; WX 333 ; N circumflex ; B 11 507 322 674 ;  
C 196 ; WX 333 ; N tilde ; B 1 532 331 638 ;  
C 197 ; WX 333 ; N macron ; B 11 547 322 601 ;  
C 198 ; WX 333 ; N breve ; B 26 507 307 664 ;  
C 199 ; WX 333 ; N dotaccent ; B 118 581 216 681 ;  
C 200 ; WX 333 ; N dieresis ; B 18 581 315 681 ;  
C 202 ; WX 333 ; N ring ; B 67 512 266 711 ;  
C 203 ; WX 333 ; N cedilla ; B 52 -215 261 0 ;  
C 205 ; WX 333 ; N  
hungarumlaut ; B -3 507 377 678 ;  
C 206 ; WX 333 ; N ogonek ; B 62 -165 243 0 ;  
C 207 ; WX 333 ; N caron ; B 11 507 322 674 ;  
C 208 ; WX 1000 ; N emdash ; B 0 201 1000 250 ;  
C 225 ; WX 889 ; N AE ; B 0 0 863 662 ;  
C 227 ; WX 276 ; N ordfeminine ; B 4 394 270 676 ;  
C 232 ; WX 611 ; N Lslash ; B 12 0 598 662 ;  
C 233 ; WX 722 ; N Oslash ; B 34 -80 688 734 ;  
C 234 ; WX 889 ; N OE ; B 30 -6 885 668 ;  
C 235 ; WX 310 ; N ordmasculine ; B 6 394 304 676 ;  
C 241 ; WX 667 ; N ae ; B 38 -10 632 460 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 253 460 ;  
C 248 ; WX 278 ; N lslash ; B 19 0 259 683 ;  
C 249 ; WX 500 ; N oslash ; B 29 -112 470 551 ;  
C 250 ; WX 722 ; N oe ; B 30 -10 690 460 ;  
C 251 ; WX 500 ; N germandbls ; B 12 -9 468 683 ;  
C -1 ; WX 333 ; N Idieresis ; B 18 0 315 835 ;  
C -1 ; WX 444 ; N eacute ; B 25 -10 424 678 ;  
C -1 ; WX 444 ; N abreve ; B 37 -10 442 664 ;  
C -1 ; WX 500 ; N uhungarumlaut ; B 9 -10 501 678 ;  
C -1 ; WX 444 ; N ecaron ; B 25 -10 424 674 ;  
C -1 ; WX 722 ;  
N Ydieresis ; B 22 0 703 835 ;  
C -1 ; WX 564 ; N divide ; B 30 -10 534 516 ;  
C -1 ; WX 722 ; N Yacute ; B 22 0 703 890 ;  
C -1 ; WX 722 ; N Acircumflex ; B 15 0 706 886 ;  
C -1 ; WX 444 ; N aacute ; B 37 -10 442 678 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 14 -14 705 886 ;  
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C -1 ; WX 389 ; N scommaaccent ; B 51 -218 348 460 ;  
C -1 ; WX 444 ; N ecircumflex ; B 25 -10 424 674 ;  
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C -1 ; WX 250 ; N commaaccent ; B 59 -218 184 -50 ;  
C -1 ; WX 760 ; N copyright ; B 38 -14 722 676 ;  
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;  
C -1 ; WX 722 ; N Ncommaaccent ; B 12 -198 707 662 ;  
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-14 688 813 ;  
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C -1 ; WX 500 ; N uring ; B 9 -10 479 711 ;  
C -1 ; WX 300 ; N threesuperior ; B 15 262 291 676 ;  
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C -1 ; WX 722 ; N Agrave ; B 15 0 706 890 ;  
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C -1 ; WX 278 ; N icircumflex ; B -16 0 295 674 ;  
C -1 ; WX 611 ; N Ecircumflex ; B 12 0 597 886 ;  
C -1 ; WX 444 ; N adieresis ; B 37 -10 442 623 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -10 424 623 ;  
C -1 ; WX 444 ; N cacute ; B 25 -10 413 678 ;

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; B 16 0 485 678 ;  
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C -1 ; WX 611 ; N Egrave ; B 12 0 597 890 ;  
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C -1 ; WX 611 ; N Zacute ; B 9 0 597 890 ;  
C -1 ; WX 611 ; N Zcaron ; B 9 0 597 886 ;  
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C -1 ; WX 722 ; N Eth ; B 16 0 685 662 ;  
C -1 ; WX 667 ; N Ccedilla ; B 28 -215 633 676 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 19 -218 257 683 ;  
C -1 ; WX 326 ; N tcaron ; B 13 -10 318 722 ;  
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C -1 ; WX 722 ; N Uogonek ;  
B 14 -165 705 662 ;  
C -1 ; WX 722 ; N Aacute ; B 15 0 706 890 ;  
C -1 ; WX 722 ; N Adieresis ; B 15 0 706 835 ;  
C -1 ; WX 444 ; N egrave ; B 25 -10 424 678 ;  
C -1 ; WX 444 ; N zacute ; B 27 0 418 678 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -165 265 683 ;  
C -1 ; WX 722 ; N Oacute ; B 34 -14 688 890 ;  
C -1 ; WX 500 ; N oacute ; B 29 -10 470 678 ;  
C -1 ; WX 444 ; N amacron ; B 37 -10 442 601 ;  
C -1 ; WX 389 ; N sacute ; B 51 -10 348 678 ;  
C -1 ; WX 278 ; N idieresis ; B -9 0 288 623 ;  
C -1 ; WX 722 ; N Ocircumflex ; B 34 -14 688 886 ;  
C -1 ; WX 722 ; N Ugrave ; B 14 -14 705 890 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 500 ; N thorn ; B 5 -217 470 683 ;  
C -1 ; WX 300 ; N twosuperior ; B 1 270 296 676 ;  
C -1 ; WX 722 ; N Odieresis ; B 34 -14 688 835 ;  
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C -1 ; WX 278 ; N igrave ; B -8 0 253 678 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B 29 -10 491 678 ;  
C -1 ; WX 611 ; N Eogonek ; B 12 -165 597 662 ;  
C -1 ; WX 500 ; N dcroat ;  
B 27 -10 500 683 ;  
C -1 ; WX 750 ; N threequarters ; B 15 -14 718 676 ;  
C -1 ; WX 556 ; N Scedilla ; B 42 -215 491 676 ;

C -1 ; WX 344 ; N lcaron ; B 19 0 347 695 ;  
C -1 ; WX 722 ; N Kcommaaccent ; B 34 -198 723 662 ;  
C -1 ; WX 611 ; N Lacute ; B 12 0 598 890 ;  
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C -1 ; WX 444 ; N edotaccent ; B 25 -10 424 623 ;  
C -1 ; WX 333 ; N Igrave ; B 18 0 315 890 ;  
C -1 ; WX 333 ; N Imacron ; B 11 0 322 813 ;  
C -1 ; WX 611 ; N Lcaron ; B 12 0 598 676 ;  
C -1 ; WX 750 ; N onehalf ; B 31 -14 746 676 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 666 ;  
C -1 ; WX 500 ; N ocircumflex ; B 29 -10 470 674 ;  
C -1 ; WX 500 ; N tilde ; B 16 0 485 638 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 14 -14 705 890 ;  
C -1 ; WX 611 ; N Eacute ; B 12 0 597 890 ;  
C -1 ; WX 444 ; N emacron ; B 25 -10 424 601 ;  
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C -1 ; WX 750 ; N onequarter ; B 37 -14 718 676 ;  
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C -1 ; WX 722 ; N Ohungarumlaut ; B 34 -14 688 890 ;  
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C -1 ; WX 500 ; N ugrave ; B 9 -10 479 678 ;  
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C -1 ; WX 278 ; N tcommaaccent ; B 13 -218 279 579 ;  
C -1 ; WX 564 ; N logicalnot ; B 30 108 534 386 ;  
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EndCharMetrics

StartKernData

StartKernPairs 2073

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KPX A Ograve

-55

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KPX A Oslash -55

KPX A Otilde -55

KPX A Q -55

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KPX A Tcaron -111

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KPX odieresis ydieresis -10  
KPX ograve v -15  
KPX ograve w -25  
KPX ograve y -10  
KPX ograve yacute -10  
KPX ograve  
ydieresis -10  
KPX ohungarumlaut v -15  
KPX ohungarumlaut w -25  
KPX ohungarumlaut y -10  
KPX ohungarumlaut yacute -10  
KPX ohungarumlaut ydieresis -10  
KPX omacron v -15  
KPX omacron w -25  
KPX omacron y -10  
KPX omacron yacute -10  
KPX omacron ydieresis -10  
KPX oslash v -15  
KPX oslash w -25  
KPX oslash y -10  
KPX oslash yacute -10

KPX oslash ydieresis -10  
KPX otilde v -15  
KPX otilde w -25  
KPX otilde y -10  
KPX otilde yacute -10  
KPX otilde ydieresis -10  
KPX p y -10  
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KPX p ydieresis -10  
KPX period quotedblright -70  
KPX period quoteright -70  
KPX quotedblleft A -80  
KPX quotedblleft Aacute -80  
KPX quotedblleft Abreve -80  
KPX quotedblleft Acircumflex -80  
KPX quotedblleft Adieresis -80  
KPX quotedblleft Agrave -80  
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KPX  
quoteleft Agrave -80  
KPX quoteleft Amacron -80  
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KPX quoteleft Atilde -80  
KPX quoteleft quoteleft -74  
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KPX quoteright dcroat -50  
KPX quoteright l -10  
KPX quoteright lacute -10  
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KPX quoteright lslash -10  
KPX quoteright quoteright -74  
KPX quoteright r -50  
KPX quoteright racute -50  
KPX quoteright rcaron -50  
KPX quoteright rcommaaccent -50  
KPX quoteright s -55  
KPX quoteright sacute -55  
KPX quoteright scaron -55  
KPX quoteright scedilla -55



KPX quoteright scommaaccent -55  
KPX quoteright space -74  
KPX quoteright t -18  
KPX quoteright tcommaaccent -18  
KPX quoteright v -50  
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-18  
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KPX space Ydieresis -90

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KPX v adieresis -25  
KPX v agrave -25  
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KPX v eacute -15  
KPX v ecaron -15  
KPX v ecircumflex -15  
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KPX  
v eogonek -15  
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KPX x eogonek -15  
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StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:43:52 1997

Comment UniqueID 43052

Comment VMusage 37169 48194

FontName Helvetica-Bold

FullName Helvetica Bold

FamilyName Helvetica

Weight Bold

ItalicAngle 0

IsFixedPitch false

CharacterSet ExtendedRoman

FontBBox -170 -228 1003 962

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 532

Ascender 718  
Descender -207  
StdHW 118  
StdVW 140  
StartCharMetrics 315  
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C 33 ; WX 333 ; N exclam ; B 90 0 244 718 ;  
C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;  
C 35 ; WX 556 ; N numbersign  
; B 18 0 538 698 ;  
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;  
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;  
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;  
C 39 ; WX 278 ; N quoteright ; B 69 445 209 718 ;  
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;  
C 41 ; WX 333 ; N parenright ; B 19 -208 298 734 ;  
C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;  
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;  
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;  
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;  
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;  
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;  
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;  
C 49 ; WX 556 ; N one ; B 69 0 378 710 ;  
C 50 ; WX 556 ; N two ; B 26 0 511 710 ;  
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;  
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;  
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;  
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;  
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;  
C 56 ; WX 556 ; N eight ; B 32 -19 524 710  
;  
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;  
C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;  
C 59 ; WX 333 ; N semicolon ; B 92 -168 242 512 ;  
C 60 ; WX 584 ; N less ; B 38 -8 546 514 ;  
C 61 ; WX 584 ; N equal ; B 40 87 544 419 ;  
C 62 ; WX 584 ; N greater ; B 38 -8 546 514 ;  
C 63 ; WX 611 ; N question ; B 60 0 556 727 ;  
C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;  
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;  
C 66 ; WX 722 ; N B ; B 76 0 669 718 ;  
C 67 ; WX 722 ; N C ; B 44 -19 684 737 ;  
C 68 ; WX 722 ; N D ; B 76 0 685 718 ;  
C 69 ; WX 667 ; N E ; B 76 0 621 718 ;  
C 70 ; WX 611 ; N F ; B 76 0 587 718 ;  
C 71 ; WX 778 ; N G ; B 44 -19 713 737 ;  
C 72 ; WX 722 ; N H ; B 71 0 651 718 ;

C 73 ; WX 278 ; N I ; B 64 0 214 718 ;  
C 74 ; WX 556 ; N J ; B 22 -18 484 718 ;  
C 75 ; WX 722 ; N K ; B 87 0 722 718 ;  
C 76 ; WX 611 ; N L ; B 76 0 583 718 ;  
C 77 ; WX 833 ; N M ; B 69 0 765 718 ;  
C 78 ; WX 722 ; N N ; B 69 0 654 718 ;  
C 79 ; WX 778 ; N O ; B 44 -19 734 737 ;  
C 80 ; WX 667 ; N P  
; B 76 0 627 718 ;  
C 81 ; WX 778 ; N Q ; B 44 -52 737 737 ;  
C 82 ; WX 722 ; N R ; B 76 0 677 718 ;  
C 83 ; WX 667 ; N S ; B 39 -19 629 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 598 718 ;  
C 85 ; WX 722 ; N U ; B 72 -19 651 718 ;  
C 86 ; WX 667 ; N V ; B 19 0 648 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 929 718 ;  
C 88 ; WX 667 ; N X ; B 14 0 653 718 ;  
C 89 ; WX 667 ; N Y ; B 15 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 25 0 586 718 ;  
C 91 ; WX 333 ; N bracketleft ; B 63 -196 309 722 ;  
C 92 ; WX 278 ; N backslash ; B -33 -19 311 737 ;  
C 93 ; WX 333 ; N bracketright ; B 24 -196 270 722 ;  
C 94 ; WX 584 ; N asciicircum ; B 62 323 522 698 ;  
C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 278 ; N quoteleft ; B 69 454 209 727 ;  
C 97 ; WX 556 ; N a ; B 29 -14 527 546 ;  
C 98 ; WX 611 ; N b ; B 61 -14 578 718 ;  
C 99 ; WX 556 ; N c ; B 34 -14 524 546 ;  
C 100 ; WX 611 ; N d ; B 34 -14 551 718 ;  
C 101 ; WX 556 ; N e ; B 23 -14 528 546 ;  
C 102 ; WX 333 ; N f ; B 10 0 318 727 ; L i f i ; L  
l f l ;  
C 103 ; WX 611 ; N g ; B 40 -217 553 546 ;  
C 104 ; WX 611 ; N h ; B 65 0 546 718 ;  
C 105 ; WX 278 ; N i ; B 69 0 209 725 ;  
C 106 ; WX 278 ; N j ; B 3 -214 209 725 ;  
C 107 ; WX 556 ; N k ; B 69 0 562 718 ;  
C 108 ; WX 278 ; N l ; B 69 0 209 718 ;  
C 109 ; WX 889 ; N m ; B 64 0 826 546 ;  
C 110 ; WX 611 ; N n ; B 65 0 546 546 ;  
C 111 ; WX 611 ; N o ; B 34 -14 578 546 ;  
C 112 ; WX 611 ; N p ; B 62 -207 578 546 ;  
C 113 ; WX 611 ; N q ; B 34 -207 552 546 ;  
C 114 ; WX 389 ; N r ; B 64 0 373 546 ;  
C 115 ; WX 556 ; N s ; B 30 -14 519 546 ;  
C 116 ; WX 333 ; N t ; B 10 -6 309 676 ;  
C 117 ; WX 611 ; N u ; B 66 -14 545 532 ;  
C 118 ; WX 556 ; N v ; B 13 0 543 532 ;

C 119 ; WX 778 ; N w ; B 10 0 769 532 ;  
C 120 ; WX 556 ; N x ; B 15 0 541 532 ;  
C 121 ; WX 556 ; N y ; B 10 -214 539 532 ;  
C 122 ; WX 500 ; N z ; B 20 0 480 532 ;  
C 123 ; WX 389 ; N braceleft ; B 48 -196 365 722 ;  
C 124 ; WX 280 ; N bar ; B 84 -225 196 775 ;  
C 125 ; WX 389 ; N braceright ; B 24 -196 341 722 ;  
C  
126 ; WX 584 ; N asciitilde ; B 61 163 523 343 ;  
C 161 ; WX 333 ; N exclamdown ; B 90 -186 244 532 ;  
C 162 ; WX 556 ; N cent ; B 34 -118 524 628 ;  
C 163 ; WX 556 ; N sterling ; B 28 -16 541 718 ;  
C 164 ; WX 167 ; N fraction ; B -170 -19 336 710 ;  
C 165 ; WX 556 ; N yen ; B -9 0 565 698 ;  
C 166 ; WX 556 ; N florin ; B -10 -210 516 737 ;  
C 167 ; WX 556 ; N section ; B 34 -184 522 727 ;  
C 168 ; WX 556 ; N currency ; B -3 76 559 636 ;  
C 169 ; WX 238 ; N quotesingle ; B 70 447 168 718 ;  
C 170 ; WX 500 ; N quotedblleft ; B 64 454 436 727 ;  
C 171 ; WX 556 ; N guillemotleft ; B 88 76 468 484 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 83 76 250 484 ;  
C 173 ; WX 333 ; N guilsinglright ; B 83 76 250 484 ;  
C 174 ; WX 611 ; N fi ; B 10 0 542 727 ;  
C 175 ; WX 611 ; N fl ; B 10 0 542 727 ;  
C 177 ; WX 556 ; N endash ; B 0 227 556 333 ;  
C 178 ; WX 556 ; N dagger ; B 36 -171 520 718 ;  
C 179 ; WX 556 ; N daggerdbl ; B 36 -171 520 718 ;  
C 180 ; WX 278 ; N periodcentered ; B 58 172 220 334  
;  
C 182 ; WX 556 ; N paragraph ; B -8 -191 539 700 ;  
C 183 ; WX 350 ; N bullet ; B 10 194 340 524 ;  
C 184 ; WX 278 ; N quotesinglbase ; B 69 -146 209 127 ;  
C 185 ; WX 500 ; N quotedblbase ; B 64 -146 436 127 ;  
C 186 ; WX 500 ; N quotedblright ; B 64 445 436 718 ;  
C 187 ; WX 556 ; N guillemotright ; B 88 76 468 484 ;  
C 188 ; WX 1000 ; N ellipsis ; B 92 0 908 146 ;  
C 189 ; WX 1000 ; N perthousand ; B -3 -19 1003 710 ;  
C 191 ; WX 611 ; N questiondown ; B 55 -195 551 532 ;  
C 193 ; WX 333 ; N grave ; B -23 604 225 750 ;  
C 194 ; WX 333 ; N acute ; B 108 604 356 750 ;  
C 195 ; WX 333 ; N circumflex ; B -10 604 343 750 ;  
C 196 ; WX 333 ; N tilde ; B -17 610 350 737 ;  
C 197 ; WX 333 ; N macron ; B -6 604 339 678 ;  
C 198 ; WX 333 ; N breve ; B -2 604 335 750 ;  
C 199 ; WX 333 ; N dotaccent ; B 104 614 230 729 ;  
C 200 ; WX 333 ; N dieresis ; B 6 614 327 729 ;  
C 202 ; WX 333 ; N ring ; B 59 568 275 776 ;  
C 203 ; WX 333 ; N cedilla ; B 6 -228 245 0 ;

C 205 ; WX 333 ; N hungarumlaut  
; B 9 604 486 750 ;  
C 206 ; WX 333 ; N ogonek ; B 71 -228 304 0 ;  
C 207 ; WX 333 ; N caron ; B -10 604 343 750 ;  
C 208 ; WX 1000 ; N emdash ; B 0 227 1000 333 ;  
C 225 ; WX 1000 ; N AE ; B 5 0 954 718 ;  
C 227 ; WX 370 ; N ordfeminine ; B 22 401 347 737 ;  
C 232 ; WX 611 ; N Lslash ; B -20 0 583 718 ;  
C 233 ; WX 778 ; N Oslash ; B 33 -27 744 745 ;  
C 234 ; WX 1000 ; N OE ; B 37 -19 961 737 ;  
C 235 ; WX 365 ; N ordmasculine ; B 6 401 360 737 ;  
C 241 ; WX 889 ; N ae ; B 29 -14 858 546 ;  
C 245 ; WX 278 ; N dotlessi ; B 69 0 209 532 ;  
C 248 ; WX 278 ; N lslash ; B -18 0 296 718 ;  
C 249 ; WX 611 ; N oslash ; B 22 -29 589 560 ;  
C 250 ; WX 944 ; N oe ; B 34 -14 912 546 ;  
C 251 ; WX 611 ; N germandbls ; B 69 -14 579 731 ;  
C -1 ; WX 278 ; N Idieresis ; B -21 0 300 915 ;  
C -1 ; WX 556 ; N eacute ; B 23 -14 528 750 ;  
C -1 ; WX 556 ; N abreve ; B 29 -14 527 750 ;  
C -1 ; WX 611 ; N uhungarumlaut ; B 66 -14 625 750 ;  
C -1 ; WX 556 ; N ecaron ; B 23 -14 528 750 ;  
C -1 ; WX 667 ; N  
Ydieresis ; B 15 0 653 915 ;  
C -1 ; WX 584 ; N divide ; B 40 -42 544 548 ;  
C -1 ; WX 667 ; N Yacute ; B 15 0 653 936 ;  
C -1 ; WX 722 ; N Acircumflex ; B 20 0 702 936 ;  
C -1 ; WX 556 ; N aacute ; B 29 -14 527 750 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 72 -19 651 936 ;  
C -1 ; WX 556 ; N yacute ; B 10 -214 539 750 ;  
C -1 ; WX 556 ; N scommaaccent ; B 30 -228 519 546 ;  
C -1 ; WX 556 ; N ecircumflex ; B 23 -14 528 750 ;  
C -1 ; WX 722 ; N Uring ; B 72 -19 651 962 ;  
C -1 ; WX 722 ; N Udieresis ; B 72 -19 651 915 ;  
C -1 ; WX 556 ; N aogonek ; B 29 -224 545 546 ;  
C -1 ; WX 722 ; N Uacute ; B 72 -19 651 936 ;  
C -1 ; WX 611 ; N uogonek ; B 66 -228 545 532 ;  
C -1 ; WX 667 ; N Edieresis ; B 76 0 621 915 ;  
C -1 ; WX 722 ; N Dcroat ; B -5 0 685 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 64 -228 199 -50 ;  
C -1 ; WX 737 ; N copyright ; B -11 -19 749 737 ;  
C -1 ; WX 667 ; N Emacron ; B 76 0 621 864 ;  
C -1 ; WX 556 ; N ccaron ; B 34 -14 524 750 ;  
C -1 ; WX 556 ; N aring ; B 29 -14 527 776  
;  
C -1 ; WX 722 ; N Ncommaaccent ; B 69 -228 654 718 ;  
C -1 ; WX 278 ; N lacute ; B 69 0 329 936 ;  
C -1 ; WX 556 ; N agrave ; B 29 -14 527 750 ;

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C -1 ; WX 722 ; N Cacute ; B 44 -19 684 936 ;  
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C -1 ; WX 611 ; N Zdotaccent ; B 25 0 586 915 ;  
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C -1 ; WX 778 ; N Ograve ; B 44 -19 734 936 ;  
C -1 ; WX 722 ; N Agrave ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Abreve ; B 20 0 702 936 ;  
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C -1 ; WX 611 ; N Tcaron ; B 14 0 598 936 ;  
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C -1 ; WX 556 ; N ydieresis ; B 10 -214 539 729 ;  
C -1 ; WX 722 ; N Nacute ; B 69 0 654 936 ;  
C -1 ; WX 278 ; N icircumflex ; B -37 0 316 750 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 76 0 621 936 ;  
C -1 ; WX 556 ; N adieresis ; B 29 -14 527 729 ;  
C -1 ; WX 556 ; N edieresis ; B 23 -14 528 729 ;  
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C -1 ; WX 611 ; N nacute  
; B 65 0 546 750 ;  
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C -1 ; WX 278 ; N Iacute ; B 64 0 329 936 ;  
C -1 ; WX 584 ; N plusminus ; B 40 0 544 506 ;  
C -1 ; WX 280 ; N brokenbar ; B 84 -150 196 700 ;  
C -1 ; WX 737 ; N registered ; B -11 -19 748 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 44 -19 713 936 ;



C -1 ; WX 278 ; N Idotaccent ; B 64 0 214 915 ;  
C -1 ; WX 600 ; N summation ; B 14 -10 585 706 ;  
C -1 ; WX 667 ; N Egrave ; B 76 0 621 936 ;  
C -1 ; WX 389 ; N racute ; B 64 0 384 750 ;  
C -1 ; WX 611 ; N omacron ; B 34 -14 578 678 ;  
C -1 ; WX 611 ; N Zacute ; B 25 0 586 936 ;  
C -1 ; WX 611 ; N Zcaron ; B 25 0 586 936 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 704 ;  
C -1 ; WX 722 ; N Eth ; B -5 0 685 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -228 684 737 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 69 -228 213 718 ;  
C -1 ; WX 389 ; N tcaron ; B 10 -6 421 878 ;  
C -1 ; WX 556 ; N eogonek ; B 23 -228 528 546 ;  
C -1 ; WX 722 ; N Uogonek  
; B 72 -228 651 718 ;  
C -1 ; WX 722 ; N Aacute ; B 20 0 702 936 ;  
C -1 ; WX 722 ; N Adieresis ; B 20 0 702 915 ;  
C -1 ; WX 556 ; N egrave ; B 23 -14 528 750 ;  
C -1 ; WX 500 ; N zacute ; B 20 0 480 750 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -224 249 725 ;  
C -1 ; WX 778 ; N Oacute ; B 44 -19 734 936 ;  
C -1 ; WX 611 ; N oacute ; B 34 -14 578 750 ;  
C -1 ; WX 556 ; N amacron ; B 29 -14 527 678 ;  
C -1 ; WX 556 ; N sacute ; B 30 -14 519 750 ;  
C -1 ; WX 278 ; N idieresis ; B -21 0 300 729 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 44 -19 734 936 ;  
C -1 ; WX 722 ; N Ugrave ; B 72 -19 651 936 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 611 ; N thorn ; B 62 -208 578 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 9 283 324 710 ;  
C -1 ; WX 778 ; N Odieresis ; B 44 -19 734 915 ;  
C -1 ; WX 611 ; N mu ; B 66 -207 545 532 ;  
C -1 ; WX 278 ; N igrave ; B -50 0 209 750 ;  
C -1 ; WX 611 ; N ohungarumlaut ; B 34 -14 625 750 ;  
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No license file was found, but licenses were detected in source scan.

StartFontMetrics 4.1

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Comment Creation Date: Thu May 1 12:52:56 1997

Comment UniqueID 43065

Comment VMusage 41636 52661

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FullName Times Bold

FamilyName Times

Weight Bold

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CharacterSet ExtendedRoman

FontBBox -168 -218 1000 935

UnderlinePosition -100

UnderlineThickness 50

Version 002.000

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EncodingScheme AdobeStandardEncoding

CapHeight 676

XHeight 461

Ascender 683

Descender -217

StdHW 44

StdVW 139

StartCharMetrics 315

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C 34 ; WX 555 ; N quotedbl ; B 83 404 472 691 ;

C 35 ; WX 500 ; N numbersign

; B 4 0 496 700 ;

C 36 ; WX 500 ; N dollar ; B 29 -99 472 750 ;

C 37 ; WX 1000 ; N percent ; B 124 -14 877 692 ;

C 38 ; WX 833 ; N ampersand ; B 62 -16 787 691 ;

C 39 ; WX 333 ; N quoteright ; B 79 356 263 691 ;

C 40 ; WX 333 ; N parenleft ; B 46 -168 306 694 ;

C 41 ; WX 333 ; N parenright ; B 27 -168 287 694 ;

C 42 ; WX 500 ; N asterisk ; B 56 255 447 691 ;

C 43 ; WX 570 ; N plus ; B 33 0 537 506 ;

C 44 ; WX 250 ; N comma ; B 39 -180 223 155 ;

C 45 ; WX 333 ; N hyphen ; B 44 171 287 287 ;

C 46 ; WX 250 ; N period ; B 41 -13 210 156 ;

C 47 ; WX 278 ; N slash ; B -24 -19 302 691 ;



C 48 ; WX 500 ; N zero ; B 24 -13 476 688 ;  
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C 51 ; WX 500 ; N three ; B 16 -14 468 688 ;  
C 52 ; WX 500 ; N four ; B 19 0 475 688 ;  
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C 55 ; WX 500 ; N seven ; B 17 0 477 676 ;  
C 56 ; WX 500 ; N eight ; B 28 -13 472 688  
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C 57 ; WX 500 ; N nine ; B 26 -13 473 688 ;  
C 58 ; WX 333 ; N colon ; B 82 -13 251 472 ;  
C 59 ; WX 333 ; N semicolon ; B 82 -180 266 472 ;  
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C 63 ; WX 500 ; N question ; B 57 -13 445 689 ;  
C 64 ; WX 930 ; N at ; B 108 -19 822 691 ;  
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C 90 ; WX 667 ; N Z ; B 28 0 634 676 ;  
C 91 ; WX 333 ; N bracketleft ; B 67 -149 301 678 ;  
C 92 ; WX 278 ; N backslash ; B -25 -19 303 691 ;  
C 93 ; WX 333 ; N bracketright ; B 32 -149 266 678 ;

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C 107 ; WX 556 ; N k ; B 22 0 543 676 ;  
C 108 ; WX 278 ; N l ; B 16 0 255 676 ;  
C 109 ; WX 833 ; N m ; B 16 0 814 473 ;  
C 110 ; WX 556 ; N n ; B 21 0 539 473 ;  
C 111 ; WX 500 ; N o ; B 25 -14 476 473 ;  
C 112 ; WX 556 ; N p ; B 19 -205 524 473 ;  
C 113 ; WX 556 ; N q ; B 34 -205 536 473 ;  
C 114 ; WX 444 ; N r ; B 29 0 434 473 ;  
C 115 ; WX 389 ; N s ; B 25 -14 361 473 ;  
C 116 ; WX 333 ; N t ; B 20 -12 332 630 ;  
C 117 ; WX 556 ; N u ; B 16 -14 537 461 ;  
C 118 ; WX 500 ; N v ; B 21 -14 485 461 ;  
C 119 ; WX 722 ; N w ; B 23 -14 707 461 ;  
C 120 ; WX 500 ; N x ; B 12 0 484 461 ;  
C 121 ; WX 500 ; N y ; B 16 -205 480 461 ;  
C 122 ; WX 444 ; N z ; B 21 0 420 461 ;  
C 123 ; WX 394 ; N braceleft ; B 22 -175 340 698 ;  
C 124 ; WX 220 ; N bar ; B 66 -218 154 782 ;  
C 125 ; WX 394 ; N braceright ; B 54  
-175 372 698 ;  
C 126 ; WX 520 ; N asciitilde ; B 29 173 491 333 ;  
C 161 ; WX 333 ; N exclamdown ; B 82 -203 252 501 ;  
C 162 ; WX 500 ; N cent ; B 53 -140 458 588 ;  
C 163 ; WX 500 ; N sterling ; B 21 -14 477 684 ;  
C 164 ; WX 167 ; N fraction ; B -168 -12 329 688 ;  
C 165 ; WX 500 ; N yen ; B -64 0 547 676 ;  
C 166 ; WX 500 ; N florin ; B 0 -155 498 706 ;  
C 167 ; WX 500 ; N section ; B 57 -132 443 691 ;  
C 168 ; WX 500 ; N currency ; B -26 61 526 613 ;  
C 169 ; WX 278 ; N quotesingle ; B 75 404 204 691 ;  
C 170 ; WX 500 ; N quotedblleft ; B 32 356 486 691 ;  
C 171 ; WX 500 ; N guillemotleft ; B 23 36 473 415 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 51 36 305 415 ;  
C 173 ; WX 333 ; N guilsinglright ; B 28 36 282 415 ;

C 174 ; WX 556 ; N fi ; B 14 0 536 691 ;  
C 175 ; WX 556 ; N fl ; B 14 0 536 691 ;  
C 177 ; WX 500 ; N endash ; B 0 181 500 271 ;  
C 178 ; WX 500 ; N dagger ; B 47 -134 453 691 ;  
C 179 ; WX 500 ; N daggerdbl ; B 45 -132 456 691 ;  
C 180 ; WX 250 ; N periodcentered ;  
B 41 248 210 417 ;  
C 182 ; WX 540 ; N paragraph ; B 0 -186 519 676 ;  
C 183 ; WX 350 ; N bullet ; B 35 198 315 478 ;  
C 184 ; WX 333 ; N quotesinglbase ; B 79 -180 263 155 ;  
C 185 ; WX 500 ; N quotedblbase ; B 14 -180 468 155 ;  
C 186 ; WX 500 ; N quotedblright ; B 14 356 468 691 ;  
C 187 ; WX 500 ; N guillemotright ; B 27 36 477 415 ;  
C 188 ; WX 1000 ; N ellipsis ; B 82 -13 917 156 ;  
C 189 ; WX 1000 ; N perthousand ; B 7 -29 995 706 ;  
C 191 ; WX 500 ; N questiondown ; B 55 -201 443 501 ;  
C 193 ; WX 333 ; N grave ; B 8 528 246 713 ;  
C 194 ; WX 333 ; N acute ; B 86 528 324 713 ;  
C 195 ; WX 333 ; N circumflex ; B -2 528 335 704 ;  
C 196 ; WX 333 ; N tilde ; B -16 547 349 674 ;  
C 197 ; WX 333 ; N macron ; B 1 565 331 637 ;  
C 198 ; WX 333 ; N breve ; B 15 528 318 691 ;  
C 199 ; WX 333 ; N dotaccent ; B 103 536 258 691 ;  
C 200 ; WX 333 ; N dieresis ; B -2 537 335 667 ;  
C 202 ; WX 333 ; N ring ; B 60 527 273 740 ;  
C 203 ; WX 333 ; N cedilla ; B 68 -218 294 0 ;  
C 205 ; WX 333 ;  
N hungarumlaut ; B -13 528 425 713 ;  
C 206 ; WX 333 ; N ogonek ; B 90 -193 319 24 ;  
C 207 ; WX 333 ; N caron ; B -2 528 335 704 ;  
C 208 ; WX 1000 ; N emdash ; B 0 181 1000 271 ;  
C 225 ; WX 1000 ; N AE ; B 4 0 951 676 ;  
C 227 ; WX 300 ; N ordfeminine ; B -1 397 301 688 ;  
C 232 ; WX 667 ; N Lslash ; B 19 0 638 676 ;  
C 233 ; WX 778 ; N Oslash ; B 35 -74 743 737 ;  
C 234 ; WX 1000 ; N OE ; B 22 -5 981 684 ;  
C 235 ; WX 330 ; N ordmasculine ; B 18 397 312 688 ;  
C 241 ; WX 722 ; N ae ; B 33 -14 693 473 ;  
C 245 ; WX 278 ; N dotlessi ; B 16 0 255 461 ;  
C 248 ; WX 278 ; N lslash ; B -22 0 303 676 ;  
C 249 ; WX 500 ; N oslash ; B 25 -92 476 549 ;  
C 250 ; WX 722 ; N oe ; B 22 -14 696 473 ;  
C 251 ; WX 556 ; N germandbls ; B 19 -12 517 691 ;  
C -1 ; WX 389 ; N Idieresis ; B 20 0 370 877 ;  
C -1 ; WX 444 ; N eacute ; B 25 -14 426 713 ;  
C -1 ; WX 500 ; N abreve ; B 25 -14 488 691 ;  
C -1 ; WX 556 ; N uhungarumlaut ; B 16 -14 557 713 ;  
C -1 ; WX 444 ; N ecaron ; B 25 -14 426 704 ;

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; WX 722 ; N Ydieresis ; B 15 0 699 877 ;  
C -1 ; WX 570 ; N divide ; B 33 -31 537 537 ;  
C -1 ; WX 722 ; N Yacute ; B 15 0 699 923 ;  
C -1 ; WX 722 ; N Acircumflex ; B 9 0 689 914 ;  
C -1 ; WX 500 ; N aacute ; B 25 -14 488 713 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 16 -19 701 914 ;  
C -1 ; WX 500 ; N yacute ; B 16 -205 480 713 ;  
C -1 ; WX 389 ; N scommaaccent ; B 25 -218 361 473 ;  
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C -1 ; WX 722 ; N Uring ; B 16 -19 701 935 ;  
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C -1 ; WX 500 ; N aogonek ; B 25 -193 504 473 ;  
C -1 ; WX 722 ; N Uacute ; B 16 -19 701 923 ;  
C -1 ; WX 556 ; N uogonek ; B 16 -193 539 461 ;  
C -1 ; WX 667 ; N Edieresis ; B 16 0 641 877 ;  
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C -1 ; WX 250 ; N commaaccent ; B 47 -218 203 -50 ;  
C -1 ; WX 747 ; N copyright ; B 26 -19 721 691 ;  
C -1 ; WX 667 ; N Emacron ; B 16 0 641 847 ;  
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488 740 ;  
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C -1 ; WX 389 ; N scaron ; B 25 -14 363 704 ;  
C -1 ; WX 389 ; N scedilla ; B 25 -218 361 473 ;  
C -1 ; WX 278 ; N iacute ; B 16 0 289 713 ;  
C -1 ; WX 494 ; N lozenge ; B 10 0 484 745 ;  
C -1 ; WX 722 ; N Rcaron ; B 26 0 715 914 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 37 -218 755 691 ;  
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C -1 ; WX 667 ; N Zdotaccent ; B 28 0 634 901 ;  
C -1 ; WX 611 ; N Thorn ; B 16 0 600 676 ;  
C -1 ; WX 778 ; N Omacron  
; B 35 -19 743 847 ;  
C -1 ; WX 722 ; N Racute ; B 26 0 715 923 ;  
C -1 ; WX 556 ; N Sacute ; B 35 -19 513 923 ;  
C -1 ; WX 672 ; N dcaron ; B 25 -14 681 682 ;

C -1 ; WX 722 ; N Umacron ; B 16 -19 701 847 ;  
C -1 ; WX 556 ; N uring ; B 16 -14 537 740 ;  
C -1 ; WX 300 ; N threesuperior ; B 3 268 297 688 ;  
C -1 ; WX 778 ; N Ograve ; B 35 -19 743 923 ;  
C -1 ; WX 722 ; N Agrave ; B 9 0 689 923 ;  
C -1 ; WX 722 ; N Abreve ; B 9 0 689 901 ;  
C -1 ; WX 570 ; N multiply ; B 48 16 522 490 ;  
C -1 ; WX 556 ; N uacute ; B 16 -14 537 713 ;  
C -1 ; WX 667 ; N Tcaron ; B 31 0 636 914 ;  
C -1 ; WX 494 ; N partialdiff ; B 11 -21 494 750 ;  
C -1 ; WX 500 ; N ydieresis ; B 16 -205 480 667 ;  
C -1 ; WX 722 ; N Nacute ; B 16 -18 701 923 ;  
C -1 ; WX 278 ; N icircumflex ; B -37 0 300 704 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 16 0 641 914 ;  
C -1 ; WX 500 ; N adieresis ; B 25 -14 488 667 ;  
C -1 ; WX 444 ; N edieresis ; B 25 -14 426 667 ;  
C -1 ; WX 444 ; N cacute ; B 25 -14 430 713 ;  
C -1 ; WX 556  
; N nacute ; B 21 0 539 713 ;  
C -1 ; WX 556 ; N umacron ; B 16 -14 537 637 ;  
C -1 ; WX 722 ; N Ncaron ; B 16 -18 701 914 ;  
C -1 ; WX 389 ; N Iacute ; B 20 0 370 923 ;  
C -1 ; WX 570 ; N plusminus ; B 33 0 537 506 ;  
C -1 ; WX 220 ; N brokenbar ; B 66 -143 154 707 ;  
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C -1 ; WX 667 ; N Zacute ; B 28 0 634 923 ;  
C -1 ; WX 667 ; N Zcaron ; B 28 0 634 914 ;  
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C -1 ; WX 722 ; N Eth ; B 6 0 690 676 ;  
C -1 ; WX 722 ; N Ccedilla ; B 49 -218 687 691 ;  
C -1 ; WX 278 ; N lcommaaccent ; B 16 -218 255 676 ;  
C -1 ; WX 416 ; N tcaron ; B 20 -12 425 815 ;  
C -1 ; WX 444 ; N eogonek ; B 25 -193 426 473 ;  
C -1 ; WX 722  
; N Uogonek ; B 16 -193 701 676 ;  
C -1 ; WX 722 ; N Aacute ; B 9 0 689 923 ;  
C -1 ; WX 722 ; N Adieresis ; B 9 0 689 877 ;  
C -1 ; WX 444 ; N egrave ; B 25 -14 426 713 ;  
C -1 ; WX 444 ; N zacute ; B 21 0 420 713 ;  
C -1 ; WX 278 ; N iogonek ; B 16 -193 274 691 ;  
C -1 ; WX 778 ; N Oacute ; B 35 -19 743 923 ;  
C -1 ; WX 500 ; N oacute ; B 25 -14 476 713 ;

C -1 ; WX 500 ; N amacron ; B 25 -14 488 637 ;  
C -1 ; WX 389 ; N sacute ; B 25 -14 361 713 ;  
C -1 ; WX 278 ; N idieresis ; B -37 0 300 667 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 35 -19 743 914 ;  
C -1 ; WX 722 ; N Ugrave ; B 16 -19 701 923 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 556 ; N thorn ; B 19 -205 524 676 ;  
C -1 ; WX 300 ; N twosuperior ; B 0 275 300 688 ;  
C -1 ; WX 778 ; N Odieresis ; B 35 -19 743 877 ;  
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C -1 ; WX 278 ; N igrave ; B -27 0 255 713 ;  
C -1 ; WX 500 ; N ohungarumlaut ; B 25 -14 529 713 ;  
C -1 ; WX 667 ; N Eogonek ; B 16 -193 644 676 ;  
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; N dcroat ; B 25 -14 534 676 ;  
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C -1 ; WX 556 ; N Scedilla ; B 35 -218 513 692 ;  
C -1 ; WX 394 ; N lcaron ; B 16 0 412 682 ;  
C -1 ; WX 778 ; N Kcommaaccent ; B 30 -218 769 676 ;  
C -1 ; WX 667 ; N Lacute ; B 19 0 638 923 ;  
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C -1 ; WX 444 ; N edotaccent ; B 25 -14 426 691 ;  
C -1 ; WX 389 ; N Igrave ; B 20 0 370 923 ;  
C -1 ; WX 389 ; N Imacron ; B 20 0 370 847 ;  
C -1 ; WX 667 ; N Lcaron ; B 19 0 652 682 ;  
C -1 ; WX 750 ; N onehalf ; B -7 -12 775 688 ;  
C -1 ; WX 549 ; N lessequal ; B 29 0 526 704 ;  
C -1 ; WX 500 ; N ocircumflex ; B 25 -14 476 704 ;  
C -1 ; WX 556 ; N ntilde ; B 21 0 539 674 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 16 -19 701 923 ;  
C -1 ; WX 667 ; N Eacute ; B 16 0 641 923 ;  
C -1 ; WX 444 ; N emacron ; B 25 -14 426 637 ;  
C -1 ; WX 500 ; N gbreve ; B 28 -206 483 691 ;  
C -1 ; WX 750 ; N onequarter ; B 28 -12 743 688 ;  
C -1 ; WX 556 ; N Scaron ; B 35 -19 513  
914 ;  
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C -1 ; WX 500 ; N ograve ; B 25 -14 476 713 ;  
C -1 ; WX 722 ; N Ccaron ; B 49 -19 687 914 ;  
C -1 ; WX 556 ; N ugrave ; B 16 -14 537 713 ;  
C -1 ; WX 549 ; N radical ; B 10 -46 512 850 ;  
C -1 ; WX 722 ; N Dcaron ; B 14 0 690 914 ;  
C -1 ; WX 444 ; N rcommaaccent ; B 29 -218 434 473 ;  
C -1 ; WX 722 ; N Ntilde ; B 16 -18 701 884 ;  
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C -1 ; WX 722 ; N Atilde ; B 9 0 689 884 ;  
C -1 ; WX 722 ; N Aogonek ; B 9 -193 699 690 ;  
C -1 ; WX 722 ; N Aring ; B 9 0 689 935 ;  
C -1 ; WX 778 ; N Otilde ; B 35 -19 743 884 ;  
C -1 ; WX 444 ; N zdotaccent ; B 21 0 420 691 ;  
C -1 ; WX 667 ; N Ecaron ; B 16 0 641 914 ;  
C -1 ; WX 389 ; N Iogonek ; B 20 -193 370 676 ;  
C -1 ; WX 556 ; N kcommaaccent  
; B 22 -218 543 676 ;  
C -1 ; WX 570 ; N minus ; B 33 209 537 297 ;  
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C -1 ; WX 570 ; N logicalnot ; B 33 108 537 399 ;  
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C -1 ; WX 556 ; N udieresis ; B 16 -14 537 667 ;  
C -1 ; WX 549 ; N notequal ; B 15 -49 540 570 ;  
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EndCharMetrics

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StartKernPairs 2242

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KPX A Gcommaaccent -55

KPX A O -45

KPX A Oacute -45

KPX A Ocircumflex -45

KPX A Odieresis

-45

KPX A Ograve -45

KPX A Ohungarumlaut -45

KPX A Omacron -45

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

StartFontMetrics 4.1

Comment Copyright (c) 1989, 1990, 1991, 1993, 1997 Adobe Systems Incorporated. All Rights Reserved.

Comment Creation Date: Mon Jun 23 16:28:00 1997

Comment UniqueID 43048

Comment VMusage 41139 52164

FontName Courier-Bold

FullName Courier Bold

FamilyName Courier

Weight Bold

ItalicAngle 0

IsFixedPitch true

CharacterSet ExtendedRoman

FontBBox -113 -250 749 801

UnderlinePosition -100

UnderlineThickness 50

Version 003.000

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EncodingScheme AdobeStandardEncoding

CapHeight 562

XHeight 439

Ascender 629

Descender -157

StdHW 84

StdVW 106

StartCharMetrics 315

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C 33 ; WX 600 ; N exclam ; B 202 -15 398 572 ;  
C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;  
C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;  
C 36 ; WX 600 ; N dollar ; B 82 -126 519 666  
;  
C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;  
C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;  
C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;  
C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;  
C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;  
C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;  
C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;  
C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;  
C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;  
C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;  
C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;  
C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;  
C 49 ; WX 600 ; N one ; B 81 0 539 616 ;  
C 50 ; WX 600 ; N two ; B 61 0 499 616 ;  
C 51 ; WX 600 ; N three ; B 63 -15 501 616 ;  
C 52 ; WX 600 ; N four ; B 53 0 507 616 ;  
C 53 ; WX 600 ; N five ; B 70 -15 521 601 ;  
C 54 ; WX 600 ; N six ; B 90 -15 521 616 ;  
C 55 ; WX 600 ; N seven ; B 55 0 494 601 ;  
C 56 ; WX 600 ; N eight ; B 83 -15 517 616 ;  
C 57 ; WX 600 ; N nine ; B 79 -15 510 616 ;  
C 58 ; WX 600 ;  
N colon ; B 191 -15 407 425 ;  
C 59 ; WX 600 ; N semicolon ; B 123 -111 408 425 ;  
C 60 ; WX 600 ; N less ; B 66 15 523 501 ;  
C 61 ; WX 600 ; N equal ; B 71 118 529 398 ;  
C 62 ; WX 600 ; N greater ; B 77 15 534 501 ;  
C 63 ; WX 600 ; N question ; B 98 -14 501 580 ;  
C 64 ; WX 600 ; N at ; B 16 -15 584 616 ;  
C 65 ; WX 600 ; N A ; B -9 0 609 562 ;  
C 66 ; WX 600 ; N B ; B 30 0 573 562 ;  
C 67 ; WX 600 ; N C ; B 22 -18 560 580 ;  
C 68 ; WX 600 ; N D ; B 30 0 594 562 ;  
C 69 ; WX 600 ; N E ; B 25 0 560 562 ;  
C 70 ; WX 600 ; N F ; B 39 0 570 562 ;  
C 71 ; WX 600 ; N G ; B 22 -18 594 580 ;  
C 72 ; WX 600 ; N H ; B 20 0 580 562 ;  
C 73 ; WX 600 ; N I ; B 77 0 523 562 ;  
C 74 ; WX 600 ; N J ; B 37 -18 601 562 ;  
C 75 ; WX 600 ; N K ; B 21 0 599 562 ;



C 76 ; WX 600 ; N L ; B 39 0 578 562 ;  
C 77 ; WX 600 ; N M ; B -2 0 602 562 ;  
C 78 ; WX 600 ; N N ; B 8 -12 610 562 ;  
C 79 ; WX 600 ; N O ; B 22 -18 578 580 ;  
C 80 ; WX 600 ; N P ; B 48 0 559 562 ;  
C 81 ; WX 600 ; N Q ; B 32 -138 578 580  
;  
C 82 ; WX 600 ; N R ; B 24 0 599 562 ;  
C 83 ; WX 600 ; N S ; B 47 -22 553 582 ;  
C 84 ; WX 600 ; N T ; B 21 0 579 562 ;  
C 85 ; WX 600 ; N U ; B 4 -18 596 562 ;  
C 86 ; WX 600 ; N V ; B -13 0 613 562 ;  
C 87 ; WX 600 ; N W ; B -18 0 618 562 ;  
C 88 ; WX 600 ; N X ; B 12 0 588 562 ;  
C 89 ; WX 600 ; N Y ; B 12 0 589 562 ;  
C 90 ; WX 600 ; N Z ; B 62 0 539 562 ;  
C 91 ; WX 600 ; N bracketleft ; B 245 -102 475 616 ;  
C 92 ; WX 600 ; N backslash ; B 99 -77 503 626 ;  
C 93 ; WX 600 ; N bracketright ; B 125 -102 355 616 ;  
C 94 ; WX 600 ; N asciicircum ; B 108 250 492 616 ;  
C 95 ; WX 600 ; N underscore ; B 0 -125 600 -75 ;  
C 96 ; WX 600 ; N quoteleft ; B 178 277 428 562 ;  
C 97 ; WX 600 ; N a ; B 35 -15 570 454 ;  
C 98 ; WX 600 ; N b ; B 0 -15 584 626 ;  
C 99 ; WX 600 ; N c ; B 40 -15 545 459 ;  
C 100 ; WX 600 ; N d ; B 20 -15 591 626 ;  
C 101 ; WX 600 ; N e ; B 40 -15 563 454 ;  
C 102 ; WX 600 ; N f ; B 83 0 547 626 ; L i f i ; L l f l ;  
C 103 ; WX 600 ; N g ; B 30 -146 580 454 ;  
C  
104 ; WX 600 ; N h ; B 5 0 592 626 ;  
C 105 ; WX 600 ; N i ; B 77 0 523 658 ;  
C 106 ; WX 600 ; N j ; B 63 -146 440 658 ;  
C 107 ; WX 600 ; N k ; B 20 0 585 626 ;  
C 108 ; WX 600 ; N l ; B 77 0 523 626 ;  
C 109 ; WX 600 ; N m ; B -22 0 626 454 ;  
C 110 ; WX 600 ; N n ; B 18 0 592 454 ;  
C 111 ; WX 600 ; N o ; B 30 -15 570 454 ;  
C 112 ; WX 600 ; N p ; B -1 -142 570 454 ;  
C 113 ; WX 600 ; N q ; B 20 -142 591 454 ;  
C 114 ; WX 600 ; N r ; B 47 0 580 454 ;  
C 115 ; WX 600 ; N s ; B 68 -17 535 459 ;  
C 116 ; WX 600 ; N t ; B 47 -15 532 562 ;  
C 117 ; WX 600 ; N u ; B -1 -15 569 439 ;  
C 118 ; WX 600 ; N v ; B -1 0 601 439 ;  
C 119 ; WX 600 ; N w ; B -18 0 618 439 ;  
C 120 ; WX 600 ; N x ; B 6 0 594 439 ;  
C 121 ; WX 600 ; N y ; B -4 -142 601 439 ;

C 122 ; WX 600 ; N z ; B 81 0 520 439 ;  
C 123 ; WX 600 ; N braceleft ; B 160 -102 464 616 ;  
C 124 ; WX 600 ; N bar ; B 255 -250 345 750 ;  
C 125 ; WX 600 ; N braceright ; B 136 -102 440 616 ;  
C 126 ; WX 600 ; N asciitilde ; B 71 153 530 356  
;  
C 161 ; WX 600 ; N exclamdown ; B 202 -146 398 449 ;  
C 162 ; WX 600 ; N cent ; B 66 -49 518 614 ;  
C 163 ; WX 600 ; N sterling ; B 72 -28 558 611 ;  
C 164 ; WX 600 ; N fraction ; B 25 -60 576 661 ;  
C 165 ; WX 600 ; N yen ; B 10 0 590 562 ;  
C 166 ; WX 600 ; N florin ; B -30 -131 572 616 ;  
C 167 ; WX 600 ; N section ; B 83 -70 517 580 ;  
C 168 ; WX 600 ; N currency ; B 54 49 546 517 ;  
C 169 ; WX 600 ; N quotesingle ; B 227 277 373 562 ;  
C 170 ; WX 600 ; N quotedblleft ; B 71 277 535 562 ;  
C 171 ; WX 600 ; N guillemotleft ; B 8 70 553 446 ;  
C 172 ; WX 600 ; N guilsinglleft ; B 141 70 459 446 ;  
C 173 ; WX 600 ; N guilsinglright ; B 141 70 459 446 ;  
C 174 ; WX 600 ; N fi ; B 12 0 593 626 ;  
C 175 ; WX 600 ; N fl ; B 12 0 593 626 ;  
C 177 ; WX 600 ; N endash ; B 65 203 535 313 ;  
C 178 ; WX 600 ; N dagger ; B 106 -70 494 580 ;  
C 179 ; WX 600 ; N daggerdbl ; B 106 -70 494 580 ;  
C 180 ; WX 600 ; N periodcentered ; B 196 165 404 351 ;  
C 182 ; WX 600 ; N paragraph ; B 6 -70 576 580  
;  
C 183 ; WX 600 ; N bullet ; B 140 132 460 430 ;  
C 184 ; WX 600 ; N quotesinglbase ; B 175 -142 427 143 ;  
C 185 ; WX 600 ; N quotedblbase ; B 65 -142 529 143 ;  
C 186 ; WX 600 ; N quotedblright ; B 61 277 525 562 ;  
C 187 ; WX 600 ; N guillemotright ; B 47 70 592 446 ;  
C 188 ; WX 600 ; N ellipsis ; B 26 -15 574 116 ;  
C 189 ; WX 600 ; N perthousand ; B -113 -15 713 616 ;  
C 191 ; WX 600 ; N questiondown ; B 99 -146 502 449 ;  
C 193 ; WX 600 ; N grave ; B 132 508 395 661 ;  
C 194 ; WX 600 ; N acute ; B 205 508 468 661 ;  
C 195 ; WX 600 ; N circumflex ; B 103 483 497 657 ;  
C 196 ; WX 600 ; N tilde ; B 89 493 512 636 ;  
C 197 ; WX 600 ; N macron ; B 88 505 512 585 ;  
C 198 ; WX 600 ; N breve ; B 83 468 517 631 ;  
C 199 ; WX 600 ; N dotaccent ; B 230 498 370 638 ;  
C 200 ; WX 600 ; N dieresis ; B 128 498 472 638 ;  
C 202 ; WX 600 ; N ring ; B 198 481 402 678 ;  
C 203 ; WX 600 ; N cedilla ; B 205 -206 387 0 ;  
C 205 ; WX 600 ; N hungarumlaut ; B 68 488 588 661 ;  
C 206 ; WX 600 ; N

ogonek ; B 169 -199 400 0 ;  
C 207 ; WX 600 ; N caron ; B 103 493 497 667 ;  
C 208 ; WX 600 ; N emdash ; B -10 203 610 313 ;  
C 225 ; WX 600 ; N AE ; B -29 0 602 562 ;  
C 227 ; WX 600 ; N ordfeminine ; B 147 196 453 580 ;  
C 232 ; WX 600 ; N Lslash ; B 39 0 578 562 ;  
C 233 ; WX 600 ; N Oslash ; B 22 -22 578 584 ;  
C 234 ; WX 600 ; N OE ; B -25 0 595 562 ;  
C 235 ; WX 600 ; N ordmasculine ; B 147 196 453 580 ;  
C 241 ; WX 600 ; N ae ; B -4 -15 601 454 ;  
C 245 ; WX 600 ; N dotlessi ; B 77 0 523 439 ;  
C 248 ; WX 600 ; N lslash ; B 77 0 523 626 ;  
C 249 ; WX 600 ; N oslash ; B 30 -24 570 463 ;  
C 250 ; WX 600 ; N oe ; B -18 -15 611 454 ;  
C 251 ; WX 600 ; N germandbls ; B 22 -15 596 626 ;  
C -1 ; WX 600 ; N Idieresis ; B 77 0 523 761 ;  
C -1 ; WX 600 ; N eacute ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N abreve ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N uhungarumlaut ; B -1 -15 628 661 ;  
C -1 ; WX 600 ; N ecaron ; B 40 -15 563 667 ;  
C -1 ; WX 600 ; N Ydieresis ; B 12 0 589 761 ;  
C -1 ; WX  
600 ; N divide ; B 71 16 529 500 ;  
C -1 ; WX 600 ; N Yacute ; B 12 0 589 784 ;  
C -1 ; WX 600 ; N Acircumflex ; B -9 0 609 780 ;  
C -1 ; WX 600 ; N aacute ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N Ucircumflex ; B 4 -18 596 780 ;  
C -1 ; WX 600 ; N yacute ; B -4 -142 601 661 ;  
C -1 ; WX 600 ; N scommaaccent ; B 68 -250 535 459 ;  
C -1 ; WX 600 ; N ecircumflex ; B 40 -15 563 657 ;  
C -1 ; WX 600 ; N Uring ; B 4 -18 596 801 ;  
C -1 ; WX 600 ; N Udieresis ; B 4 -18 596 761 ;  
C -1 ; WX 600 ; N aogonek ; B 35 -199 586 454 ;  
C -1 ; WX 600 ; N Uacute ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N uogonek ; B -1 -199 585 439 ;  
C -1 ; WX 600 ; N Edieresis ; B 25 0 560 761 ;  
C -1 ; WX 600 ; N Dcroat ; B 30 0 594 562 ;  
C -1 ; WX 600 ; N commaaccent ; B 205 -250 397 -57 ;  
C -1 ; WX 600 ; N copyright ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Emacron ; B 25 0 560 708 ;  
C -1 ; WX 600 ; N ccaron ; B 40 -15 545 667 ;  
C -1 ; WX 600 ; N aring ; B 35 -15 570 678 ;  
C -1 ; WX 600 ; N Ncommaaccent ; B 8 -250 610  
562 ;  
C -1 ; WX 600 ; N lacute ; B 77 0 523 801 ;  
C -1 ; WX 600 ; N agrave ; B 35 -15 570 661 ;  
C -1 ; WX 600 ; N Tcommaaccent ; B 21 -250 579 562 ;  
C -1 ; WX 600 ; N Cacute ; B 22 -18 560 784 ;

C -1 ; WX 600 ; N atilde ; B 35 -15 570 636 ;  
C -1 ; WX 600 ; N Edotaccent ; B 25 0 560 761 ;  
C -1 ; WX 600 ; N scaron ; B 68 -17 535 667 ;  
C -1 ; WX 600 ; N scedilla ; B 68 -206 535 459 ;  
C -1 ; WX 600 ; N iacute ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N lozenge ; B 66 0 534 740 ;  
C -1 ; WX 600 ; N Rcaron ; B 24 0 599 790 ;  
C -1 ; WX 600 ; N Gcommaaccent ; B 22 -250 594 580 ;  
C -1 ; WX 600 ; N ucircumflex ; B -1 -15 569 657 ;  
C -1 ; WX 600 ; N acircumflex ; B 35 -15 570 657 ;  
C -1 ; WX 600 ; N Amacron ; B -9 0 609 708 ;  
C -1 ; WX 600 ; N rcaron ; B 47 0 580 667 ;  
C -1 ; WX 600 ; N ccedilla ; B 40 -206 545 459 ;  
C -1 ; WX 600 ; N Zdotaccent ; B 62 0 539 761 ;  
C -1 ; WX 600 ; N Thorn ; B 48 0 557 562 ;  
C -1 ; WX 600 ; N Omacron ; B 22 -18 578 708 ;  
C -1 ; WX 600 ; N Racute ; B  
24 0 599 784 ;  
C -1 ; WX 600 ; N Sacute ; B 47 -22 553 784 ;  
C -1 ; WX 600 ; N dcaron ; B 20 -15 727 626 ;  
C -1 ; WX 600 ; N Umacron ; B 4 -18 596 708 ;  
C -1 ; WX 600 ; N uring ; B -1 -15 569 678 ;  
C -1 ; WX 600 ; N threesuperior ; B 138 222 433 616 ;  
C -1 ; WX 600 ; N Ograve ; B 22 -18 578 784 ;  
C -1 ; WX 600 ; N Agrave ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N Abreve ; B -9 0 609 784 ;  
C -1 ; WX 600 ; N multiply ; B 81 39 520 478 ;  
C -1 ; WX 600 ; N uacute ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N Tcaron ; B 21 0 579 790 ;  
C -1 ; WX 600 ; N partialdiff ; B 63 -38 537 728 ;  
C -1 ; WX 600 ; N ydieresis ; B -4 -142 601 638 ;  
C -1 ; WX 600 ; N Nacute ; B 8 -12 610 784 ;  
C -1 ; WX 600 ; N icircumflex ; B 73 0 523 657 ;  
C -1 ; WX 600 ; N Ecircumflex ; B 25 0 560 780 ;  
C -1 ; WX 600 ; N adieresis ; B 35 -15 570 638 ;  
C -1 ; WX 600 ; N edieresis ; B 40 -15 563 638 ;  
C -1 ; WX 600 ; N cacute ; B 40 -15 545 661 ;  
C -1 ; WX 600 ; N nacute ; B 18 0 592 661 ;  
C -1 ; WX 600 ; N umacron  
; B -1 -15 569 585 ;  
C -1 ; WX 600 ; N Ncaron ; B 8 -12 610 790 ;  
C -1 ; WX 600 ; N Iacute ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N plusminus ; B 71 24 529 515 ;  
C -1 ; WX 600 ; N brokenbar ; B 255 -175 345 675 ;  
C -1 ; WX 600 ; N registered ; B 0 -18 600 580 ;  
C -1 ; WX 600 ; N Gbreve ; B 22 -18 594 784 ;  
C -1 ; WX 600 ; N Idotaccent ; B 77 0 523 761 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 586 706 ;

C -1 ; WX 600 ; N Egrave ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N racute ; B 47 0 580 661 ;  
C -1 ; WX 600 ; N omacron ; B 30 -15 570 585 ;  
C -1 ; WX 600 ; N Zacute ; B 62 0 539 784 ;  
C -1 ; WX 600 ; N Zcaron ; B 62 0 539 790 ;  
C -1 ; WX 600 ; N greaterequal ; B 26 0 523 696 ;  
C -1 ; WX 600 ; N Eth ; B 30 0 594 562 ;  
C -1 ; WX 600 ; N Ccedilla ; B 22 -206 560 580 ;  
C -1 ; WX 600 ; N lcommaaccent ; B 77 -250 523 626 ;  
C -1 ; WX 600 ; N tcaron ; B 47 -15 532 703 ;  
C -1 ; WX 600 ; N eogonek ; B 40 -199 563 454 ;  
C -1 ; WX 600 ; N Uogonek ; B 4 -199 596 562 ;  
C -1 ; WX 600 ; N Aacute  
; B -9 0 609 784 ;  
C -1 ; WX 600 ; N Adieresis ; B -9 0 609 761 ;  
C -1 ; WX 600 ; N egrave ; B 40 -15 563 661 ;  
C -1 ; WX 600 ; N zacute ; B 81 0 520 661 ;  
C -1 ; WX 600 ; N iogonek ; B 77 -199 523 658 ;  
C -1 ; WX 600 ; N Oacute ; B 22 -18 578 784 ;  
C -1 ; WX 600 ; N oacute ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N amacron ; B 35 -15 570 585 ;  
C -1 ; WX 600 ; N sacute ; B 68 -17 535 661 ;  
C -1 ; WX 600 ; N idieresis ; B 77 0 523 618 ;  
C -1 ; WX 600 ; N Ocircumflex ; B 22 -18 578 780 ;  
C -1 ; WX 600 ; N Ugrave ; B 4 -18 596 784 ;  
C -1 ; WX 600 ; N Delta ; B 6 0 594 688 ;  
C -1 ; WX 600 ; N thorn ; B -14 -142 570 626 ;  
C -1 ; WX 600 ; N twosuperior ; B 143 230 436 616 ;  
C -1 ; WX 600 ; N Odieresis ; B 22 -18 578 761 ;  
C -1 ; WX 600 ; N mu ; B -1 -142 569 439 ;  
C -1 ; WX 600 ; N igrave ; B 77 0 523 661 ;  
C -1 ; WX 600 ; N ohungarumlaut ; B 30 -15 668 661 ;  
C -1 ; WX 600 ; N Eogonek ; B 25 -199 576 562 ;  
C -1 ; WX 600 ; N dcroat ; B 20 -15 591 626 ;  
C -1 ; WX 600 ; N  
threequarters ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N Scedilla ; B 47 -206 553 582 ;  
C -1 ; WX 600 ; N lcaron ; B 77 0 597 626 ;  
C -1 ; WX 600 ; N Kcommaaccent ; B 21 -250 599 562 ;  
C -1 ; WX 600 ; N Lacute ; B 39 0 578 784 ;  
C -1 ; WX 600 ; N trademark ; B -9 230 749 562 ;  
C -1 ; WX 600 ; N edotaccent ; B 40 -15 563 638 ;  
C -1 ; WX 600 ; N Igrave ; B 77 0 523 784 ;  
C -1 ; WX 600 ; N Imacron ; B 77 0 523 708 ;  
C -1 ; WX 600 ; N Lcaron ; B 39 0 637 562 ;  
C -1 ; WX 600 ; N onehalf ; B -47 -60 648 661 ;  
C -1 ; WX 600 ; N lessequal ; B 26 0 523 696 ;  
C -1 ; WX 600 ; N ocircumflex ; B 30 -15 570 657 ;

C -1 ; WX 600 ; N ntilde ; B 18 0 592 636 ;  
C -1 ; WX 600 ; N Uhungarumlaut ; B 4 -18 638 784 ;  
C -1 ; WX 600 ; N Eacute ; B 25 0 560 784 ;  
C -1 ; WX 600 ; N emacron ; B 40 -15 563 585 ;  
C -1 ; WX 600 ; N gbreve ; B 30 -146 580 661 ;  
C -1 ; WX 600 ; N onequarter ; B -56 -60 656 661 ;  
C -1 ; WX 600 ; N Scaron ; B 47 -22 553 790 ;  
C -1 ; WX 600 ; N Scommaaccent ; B 47 -250 553  
582 ;  
C -1 ; WX 600 ; N Ohungarumlaut ; B 22 -18 628 784 ;  
C -1 ; WX 600 ; N degree ; B 86 243 474 616 ;  
C -1 ; WX 600 ; N ograve ; B 30 -15 570 661 ;  
C -1 ; WX 600 ; N Ccaron ; B 22 -18 560 790 ;  
C -1 ; WX 600 ; N ugrave ; B -1 -15 569 661 ;  
C -1 ; WX 600 ; N radical ; B -19 -104 473 778 ;  
C -1 ; WX 600 ; N Dcaron ; B 30 0 594 790 ;  
C -1 ; WX 600 ; N rcommaaccent ; B 47 -250 580 454 ;  
C -1 ; WX 600 ; N Ntilde ; B 8 -12 610 759 ;  
C -1 ; WX 600 ; N otilde ; B 30 -15 570 636 ;  
C -1 ; WX 600 ; N Rcommaaccent ; B 24 -250 599 562 ;  
C -1 ; WX 600 ; N Lcommaaccent ; B 39 -250 578 562 ;  
C -1 ; WX 600 ; N Atilde ; B -9 0 609 759 ;  
C -1 ; WX 600 ; N Aogonek ; B -9 -199 625 562 ;  
C -1 ; WX 600 ; N Aring ; B -9 0 609 801 ;  
C -1 ; WX 600 ; N Otilde ; B 22 -18 578 759 ;  
C -1 ; WX 600 ; N zdotaccent ; B 81 0 520 638 ;  
C -1 ; WX 600 ; N Ecaron ; B 25 0 560 790 ;  
C -1 ; WX 600 ; N Iogonek ; B 77 -199 523 562 ;  
C -1 ; WX 600 ; N kcommaaccent ; B 20 -250 585 626 ;  
C -1 ; WX 600 ;  
N minus ; B 71 203 529 313 ;  
C -1 ; WX 600 ; N Icircumflex ; B 77 0 523 780 ;  
C -1 ; WX 600 ; N ncaron ; B 18 0 592 667 ;  
C -1 ; WX 600 ; N tcommaaccent ; B 47 -250 532 562 ;  
C -1 ; WX 600 ; N logicalnot ; B 71 103 529 413 ;  
C -1 ; WX 600 ; N odieresis ; B 30 -15 570 638 ;  
C -1 ; WX 600 ; N udieresis ; B -1 -15 569 638 ;  
C -1 ; WX 600 ; N notequal ; B 12 -47 537 563 ;  
C -1 ; WX 600 ; N gcommaaccent ; B 30 -146 580 714 ;  
C -1 ; WX 600 ; N eth ; B 58 -27 543 626 ;  
C -1 ; WX 600 ; N zcaron ; B 81 0 520 667 ;  
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C -1 ; WX 600 ; N onesuperior ; B 153 230 447 616 ;  
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FamilyName Helvetica

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ItalicAngle 0

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CharacterSet ExtendedRoman

FontBBox -166 -225 1000 931

UnderlinePosition -100

UnderlineThickness 50

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EncodingScheme AdobeStandardEncoding

CapHeight 718

XHeight 523

Ascender 718

Descender -207

StdHW 76

StdVW 88

StartCharMetrics 315

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C 33 ; WX 278 ; N exclam ; B 90 0 187 718 ;

C 34 ; WX 355 ; N quotedbl ; B 70 463 285 718 ;

C 35 ; WX 556 ; N numbersign

; B 28 0 529 688 ;

C 36 ; WX 556 ; N dollar ; B 32 -115 520 775 ;

C 37 ; WX 889 ; N percent ; B 39 -19 850 703 ;

C 38 ; WX 667 ; N ampersand ; B 44 -15 645 718 ;

C 39 ; WX 222 ; N quoteright ; B 53 463 157 718 ;

C 40 ; WX 333 ; N parenleft ; B 68 -207 299 733 ;

C 41 ; WX 333 ; N parenright ; B 34 -207 265 733 ;

C 42 ; WX 389 ; N asterisk ; B 39 431 349 718 ;

C 43 ; WX 584 ; N plus ; B 39 0 545 505 ;

C 44 ; WX 278 ; N comma ; B 87 -147 191 106 ;

C 45 ; WX 333 ; N hyphen ; B 44 232 289 322 ;

C 46 ; WX 278 ; N period ; B 87 0 191 106 ;

C 47 ; WX 278 ; N slash ; B -17 -19 295 737 ;

C 48 ; WX 556 ; N zero ; B 37 -19 519 703 ;

C 49 ; WX 556 ; N one ; B 101 0 359 703 ;  
C 50 ; WX 556 ; N two ; B 26 0 507 703 ;  
C 51 ; WX 556 ; N three ; B 34 -19 522 703 ;  
C 52 ; WX 556 ; N four ; B 25 0 523 703 ;  
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C 54 ; WX 556 ; N six ; B 38 -19 518 703 ;  
C 55 ; WX 556 ; N seven ; B 37 0 523 688 ;  
C 56 ; WX 556 ; N eight ; B 38 -19 517 703 ;  
C 57  
; WX 556 ; N nine ; B 42 -19 514 703 ;  
C 58 ; WX 278 ; N colon ; B 87 0 191 516 ;  
C 59 ; WX 278 ; N semicolon ; B 87 -147 191 516 ;  
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C 61 ; WX 584 ; N equal ; B 39 115 545 390 ;  
C 62 ; WX 584 ; N greater ; B 48 11 536 495 ;  
C 63 ; WX 556 ; N question ; B 56 0 492 727 ;  
C 64 ; WX 1015 ; N at ; B 147 -19 868 737 ;  
C 65 ; WX 667 ; N A ; B 14 0 654 718 ;  
C 66 ; WX 667 ; N B ; B 74 0 627 718 ;  
C 67 ; WX 722 ; N C ; B 44 -19 681 737 ;  
C 68 ; WX 722 ; N D ; B 81 0 674 718 ;  
C 69 ; WX 667 ; N E ; B 86 0 616 718 ;  
C 70 ; WX 611 ; N F ; B 86 0 583 718 ;  
C 71 ; WX 778 ; N G ; B 48 -19 704 737 ;  
C 72 ; WX 722 ; N H ; B 77 0 646 718 ;  
C 73 ; WX 278 ; N I ; B 91 0 188 718 ;  
C 74 ; WX 500 ; N J ; B 17 -19 428 718 ;  
C 75 ; WX 667 ; N K ; B 76 0 663 718 ;  
C 76 ; WX 556 ; N L ; B 76 0 537 718 ;  
C 77 ; WX 833 ; N M ; B 73 0 761 718 ;  
C 78 ; WX 722 ; N N ; B 76 0 646 718 ;  
C 79 ; WX 778 ; N O ; B 39 -19 739 737 ;  
C 80 ; WX 667 ; N P ; B 86  
0 622 718 ;  
C 81 ; WX 778 ; N Q ; B 39 -56 739 737 ;  
C 82 ; WX 722 ; N R ; B 88 0 684 718 ;  
C 83 ; WX 667 ; N S ; B 49 -19 620 737 ;  
C 84 ; WX 611 ; N T ; B 14 0 597 718 ;  
C 85 ; WX 722 ; N U ; B 79 -19 644 718 ;  
C 86 ; WX 667 ; N V ; B 20 0 647 718 ;  
C 87 ; WX 944 ; N W ; B 16 0 928 718 ;  
C 88 ; WX 667 ; N X ; B 19 0 648 718 ;  
C 89 ; WX 667 ; N Y ; B 14 0 653 718 ;  
C 90 ; WX 611 ; N Z ; B 23 0 588 718 ;  
C 91 ; WX 278 ; N bracketleft ; B 63 -196 250 722 ;  
C 92 ; WX 278 ; N backslash ; B -17 -19 295 737 ;  
C 93 ; WX 278 ; N bracketright ; B 28 -196 215 722 ;  
C 94 ; WX 469 ; N asciicircum ; B -14 264 483 688 ;



C 95 ; WX 556 ; N underscore ; B 0 -125 556 -75 ;  
C 96 ; WX 222 ; N quoteleft ; B 65 470 169 725 ;  
C 97 ; WX 556 ; N a ; B 36 -15 530 538 ;  
C 98 ; WX 556 ; N b ; B 58 -15 517 718 ;  
C 99 ; WX 500 ; N c ; B 30 -15 477 538 ;  
C 100 ; WX 556 ; N d ; B 35 -15 499 718 ;  
C 101 ; WX 556 ; N e ; B 40 -15 516 538 ;  
C 102 ; WX 278 ; N f ; B 14 0 262 728 ; L i f i ; L l f l ;  
C  
103 ; WX 556 ; N g ; B 40 -220 499 538 ;  
C 104 ; WX 556 ; N h ; B 65 0 491 718 ;  
C 105 ; WX 222 ; N i ; B 67 0 155 718 ;  
C 106 ; WX 222 ; N j ; B -16 -210 155 718 ;  
C 107 ; WX 500 ; N k ; B 67 0 501 718 ;  
C 108 ; WX 222 ; N l ; B 67 0 155 718 ;  
C 109 ; WX 833 ; N m ; B 65 0 769 538 ;  
C 110 ; WX 556 ; N n ; B 65 0 491 538 ;  
C 111 ; WX 556 ; N o ; B 35 -14 521 538 ;  
C 112 ; WX 556 ; N p ; B 58 -207 517 538 ;  
C 113 ; WX 556 ; N q ; B 35 -207 494 538 ;  
C 114 ; WX 333 ; N r ; B 77 0 332 538 ;  
C 115 ; WX 500 ; N s ; B 32 -15 464 538 ;  
C 116 ; WX 278 ; N t ; B 14 -7 257 669 ;  
C 117 ; WX 556 ; N u ; B 68 -15 489 523 ;  
C 118 ; WX 500 ; N v ; B 8 0 492 523 ;  
C 119 ; WX 722 ; N w ; B 14 0 709 523 ;  
C 120 ; WX 500 ; N x ; B 11 0 490 523 ;  
C 121 ; WX 500 ; N y ; B 11 -214 489 523 ;  
C 122 ; WX 500 ; N z ; B 31 0 469 523 ;  
C 123 ; WX 334 ; N braceleft ; B 42 -196 292 722 ;  
C 124 ; WX 260 ; N bar ; B 94 -225 167 775 ;  
C 125 ; WX 334 ; N braceright ; B 42 -196 292 722 ;  
C 126  
; WX 584 ; N asciitilde ; B 61 180 523 326 ;  
C 161 ; WX 333 ; N exclamdown ; B 118 -195 215 523 ;  
C 162 ; WX 556 ; N cent ; B 51 -115 513 623 ;  
C 163 ; WX 556 ; N sterling ; B 33 -16 539 718 ;  
C 164 ; WX 167 ; N fraction ; B -166 -19 333 703 ;  
C 165 ; WX 556 ; N yen ; B 3 0 553 688 ;  
C 166 ; WX 556 ; N florin ; B -11 -207 501 737 ;  
C 167 ; WX 556 ; N section ; B 43 -191 512 737 ;  
C 168 ; WX 556 ; N currency ; B 28 99 528 603 ;  
C 169 ; WX 191 ; N quotesingle ; B 59 463 132 718 ;  
C 170 ; WX 333 ; N quotedblleft ; B 38 470 307 725 ;  
C 171 ; WX 556 ; N guillemotleft ; B 97 108 459 446 ;  
C 172 ; WX 333 ; N guilsinglleft ; B 88 108 245 446 ;  
C 173 ; WX 333 ; N guilsinglright ; B 88 108 245 446 ;  
C 174 ; WX 500 ; N fi ; B 14 0 434 728 ;

C 175 ; WX 500 ; N fl ; B 14 0 432 728 ;  
 C 177 ; WX 556 ; N endash ; B 0 240 556 313 ;  
 C 178 ; WX 556 ; N dagger ; B 43 -159 514 718 ;  
 C 179 ; WX 556 ; N daggerdbl ; B 43 -159 514 718 ;  
 C 180 ; WX 278 ; N periodcentered ; B 77 190 202 315 ;  
 C  
 182 ; WX 537 ; N paragraph ; B 18 -173 497 718 ;  
 C 183 ; WX 350 ; N bullet ; B 18 202 333 517 ;  
 C 184 ; WX 222 ; N quotesinglbase ; B 53 -149 157 106 ;  
 C 185 ; WX 333 ; N quotedblbase ; B 26 -149 295 106 ;  
 C 186 ; WX 333 ; N quotedblright ; B 26 463 295 718 ;  
 C 187 ; WX 556 ; N guillemotright ; B 97 108 459 446 ;  
 C 188 ; WX 1000 ; N ellipsis ; B 115 0 885 106 ;  
 C 189 ; WX 1000 ; N perthousand ; B 7 -19 994 703 ;  
 C 191 ; WX 611 ; N questiondown ; B 91 -201 527 525 ;  
 C 193 ; WX 333 ; N grave ; B 14 593 211 734 ;  
 C 194 ; WX 333 ; N acute ; B 122 593 319 734 ;  
 C 195 ; WX 333 ; N circumflex ; B 21 593 312 734 ;  
 C 196 ; WX 333 ; N tilde ; B -4 606 337 722 ;  
 C 197 ; WX 333 ; N macron ; B 10 627 323 684 ;  
 C 198 ; WX 333 ; N breve ; B 13 595 321 731 ;  
 C 199 ; WX 333 ; N dotaccent ; B 121 604 212 706 ;  
 C 200 ; WX 333 ; N dieresis ; B 40 604 293 706 ;  
 C 202 ; WX 333 ; N ring ; B 75 572 259 756 ;  
 C 203 ; WX 333 ; N cedilla ; B 45 -225 259 0 ;  
 C 205 ; WX 333 ; N hungarumlaut  
 ; B 31 593 409 734 ;  
 C 206 ; WX 333 ; N ogonek ; B 73 -225 287 0 ;  
 C 207 ; WX 333 ; N caron ; B 21 593 312 734 ;  
 C 208 ; WX 1000 ; N emdash ; B 0 240 1000 313 ;  
 C 225 ; WX 1000 ; N AE ; B 8 0 951 718 ;  
 C 227 ; WX 370 ; N ordfeminine ; B 24 405 346 737 ;  
 C 232 ; WX 556 ; N Lslash ; B -20 0 537 718 ;  
 C 233 ; WX 778 ; N Oslash ; B 39 -19 740 737 ;  
 C 234 ; WX 1000 ; N OE ; B 36 -19 965 737 ;  
 C 235 ; WX 365 ; N ordmasculine ; B 25 405 341 737 ;  
 C 241 ; WX 889 ; N ae ; B 36 -15 847 538 ;  
 C 245 ; WX 278 ; N dotlessi ; B 95 0 183 523 ;  
 C 248 ; WX 222 ; N lslash ; B -20 0 242 718 ;  
 C 249 ; WX 611 ; N oslash ; B 28 -22 537 545 ;  
 C 250 ; WX 944 ; N oe ; B 35 -15 902 538 ;  
 C 251 ; WX 611 ; N germandbls ; B 67 -15 571 728 ;  
 C -1 ; WX 278 ; N Idieresis ; B 13 0 266 901 ;  
 C -1 ; WX 556 ; N eacute ; B 40 -15 516 734 ;  
 C -1 ; WX 556 ; N abreve ; B 36 -15 530 731 ;  
 C -1 ; WX 556 ; N uhungarumlaut ; B 68 -15 521 734 ;  
 C -1 ; WX 556 ; N ecaron ; B 40 -15 516 734 ;  
 C -1 ; WX 667 ; N Ydieresis

; B 14 0 653 901 ;  
C -1 ; WX 584 ; N divide ; B 39 -19 545 524 ;  
C -1 ; WX 667 ; N Yacute ; B 14 0 653 929 ;  
C -1 ; WX 667 ; N Acircumflex ; B 14 0 654 929 ;  
C -1 ; WX 556 ; N aacute ; B 36 -15 530 734 ;  
C -1 ; WX 722 ; N Ucircumflex ; B 79 -19 644 929 ;  
C -1 ; WX 500 ; N yacute ; B 11 -214 489 734 ;  
C -1 ; WX 500 ; N scommaaccent ; B 32 -225 464 538 ;  
C -1 ; WX 556 ; N ecircumflex ; B 40 -15 516 734 ;  
C -1 ; WX 722 ; N Uring ; B 79 -19 644 931 ;  
C -1 ; WX 722 ; N Udieresis ; B 79 -19 644 901 ;  
C -1 ; WX 556 ; N aogonek ; B 36 -220 547 538 ;  
C -1 ; WX 722 ; N Uacute ; B 79 -19 644 929 ;  
C -1 ; WX 556 ; N uogonek ; B 68 -225 519 523 ;  
C -1 ; WX 667 ; N Edieresis ; B 86 0 616 901 ;  
C -1 ; WX 722 ; N Dcroat ; B 0 0 674 718 ;  
C -1 ; WX 250 ; N commaaccent ; B 87 -225 181 -40 ;  
C -1 ; WX 737 ; N copyright ; B -14 -19 752 737 ;  
C -1 ; WX 667 ; N Emacron ; B 86 0 616 879 ;  
C -1 ; WX 500 ; N ccaron ; B 30 -15 477 734 ;  
C -1 ; WX 556 ; N aring ; B 36 -15 530 756 ;  
C  
-1 ; WX 722 ; N Ncommaaccent ; B 76 -225 646 718 ;  
C -1 ; WX 222 ; N lacute ; B 67 0 264 929 ;  
C -1 ; WX 556 ; N agrave ; B 36 -15 530 734 ;  
C -1 ; WX 611 ; N Tcommaaccent ; B 14 -225 597 718 ;  
C -1 ; WX 722 ; N Cacute ; B 44 -19 681 929 ;  
C -1 ; WX 556 ; N atilde ; B 36 -15 530 722 ;  
C -1 ; WX 667 ; N Edotaccent ; B 86 0 616 901 ;  
C -1 ; WX 500 ; N scaron ; B 32 -15 464 734 ;  
C -1 ; WX 500 ; N scedilla ; B 32 -225 464 538 ;  
C -1 ; WX 278 ; N iacute ; B 95 0 292 734 ;  
C -1 ; WX 471 ; N lozenge ; B 10 0 462 728 ;  
C -1 ; WX 722 ; N Rcaron ; B 88 0 684 929 ;  
C -1 ; WX 778 ; N Gcommaaccent ; B 48 -225 704 737 ;  
C -1 ; WX 556 ; N ucircumflex ; B 68 -15 489 734 ;  
C -1 ; WX 556 ; N acircumflex ; B 36 -15 530 734 ;  
C -1 ; WX 667 ; N Amacron ; B 14 0 654 879 ;  
C -1 ; WX 333 ; N rcaron ; B 61 0 352 734 ;  
C -1 ; WX 500 ; N ccedilla ; B 30 -225 477 538 ;  
C -1 ; WX 611 ; N Zdotaccent ; B 23 0 588 901 ;  
C -1 ; WX 667 ; N Thorn ; B 86 0 622 718 ;  
C -1 ; WX 778 ; N Omacron ; B 39  
-19 739 879 ;  
C -1 ; WX 722 ; N Racute ; B 88 0 684 929 ;  
C -1 ; WX 667 ; N Sacute ; B 49 -19 620 929 ;  
C -1 ; WX 643 ; N dcaron ; B 35 -15 655 718 ;  
C -1 ; WX 722 ; N Umacron ; B 79 -19 644 879 ;

C -1 ; WX 556 ; N uring ; B 68 -15 489 756 ;  
C -1 ; WX 333 ; N threesuperior ; B 5 270 325 703 ;  
C -1 ; WX 778 ; N Ograve ; B 39 -19 739 929 ;  
C -1 ; WX 667 ; N Agrave ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Abreve ; B 14 0 654 926 ;  
C -1 ; WX 584 ; N multiply ; B 39 0 545 506 ;  
C -1 ; WX 556 ; N uacute ; B 68 -15 489 734 ;  
C -1 ; WX 611 ; N Tcaron ; B 14 0 597 929 ;  
C -1 ; WX 476 ; N partialdiff ; B 13 -38 463 714 ;  
C -1 ; WX 500 ; N ydieresis ; B 11 -214 489 706 ;  
C -1 ; WX 722 ; N Nacute ; B 76 0 646 929 ;  
C -1 ; WX 278 ; N icircumflex ; B -6 0 285 734 ;  
C -1 ; WX 667 ; N Ecircumflex ; B 86 0 616 929 ;  
C -1 ; WX 556 ; N adieresis ; B 36 -15 530 706 ;  
C -1 ; WX 556 ; N edieresis ; B 40 -15 516 706 ;  
C -1 ; WX 500 ; N cacute ; B 30 -15 477 734 ;  
C -1 ; WX 556 ; N nacute ; B  
65 0 491 734 ;  
C -1 ; WX 556 ; N umacron ; B 68 -15 489 684 ;  
C -1 ; WX 722 ; N Ncaron ; B 76 0 646 929 ;  
C -1 ; WX 278 ; N Iacute ; B 91 0 292 929 ;  
C -1 ; WX 584 ; N plusminus ; B 39 0 545 506 ;  
C -1 ; WX 260 ; N brokenbar ; B 94 -150 167 700 ;  
C -1 ; WX 737 ; N registered ; B -14 -19 752 737 ;  
C -1 ; WX 778 ; N Gbreve ; B 48 -19 704 926 ;  
C -1 ; WX 278 ; N Idotaccent ; B 91 0 188 901 ;  
C -1 ; WX 600 ; N summation ; B 15 -10 586 706 ;  
C -1 ; WX 667 ; N Egrave ; B 86 0 616 929 ;  
C -1 ; WX 333 ; N racute ; B 77 0 332 734 ;  
C -1 ; WX 556 ; N omacron ; B 35 -14 521 684 ;  
C -1 ; WX 611 ; N Zacute ; B 23 0 588 929 ;  
C -1 ; WX 611 ; N Zcaron ; B 23 0 588 929 ;  
C -1 ; WX 549 ; N greaterequal ; B 26 0 523 674 ;  
C -1 ; WX 722 ; N Eth ; B 0 0 674 718 ;  
C -1 ; WX 722 ; N Ccedilla ; B 44 -225 681 737 ;  
C -1 ; WX 222 ; N lcommaaccent ; B 67 -225 167 718 ;  
C -1 ; WX 317 ; N tcaron ; B 14 -7 329 808 ;  
C -1 ; WX 556 ; N eogonek ; B 40 -225 516 538 ;  
C -1 ; WX 722 ; N Uogonek ; B  
79 -225 644 718 ;  
C -1 ; WX 667 ; N Aacute ; B 14 0 654 929 ;  
C -1 ; WX 667 ; N Adieresis ; B 14 0 654 901 ;  
C -1 ; WX 556 ; N egrave ; B 40 -15 516 734 ;  
C -1 ; WX 500 ; N zacute ; B 31 0 469 734 ;  
C -1 ; WX 222 ; N iogonek ; B -31 -225 183 718 ;  
C -1 ; WX 778 ; N Oacute ; B 39 -19 739 929 ;  
C -1 ; WX 556 ; N oacute ; B 35 -14 521 734 ;  
C -1 ; WX 556 ; N amacron ; B 36 -15 530 684 ;

C -1 ; WX 500 ; N sacute ; B 32 -15 464 734 ;  
C -1 ; WX 278 ; N idieresis ; B 13 0 266 706 ;  
C -1 ; WX 778 ; N Ocircumflex ; B 39 -19 739 929 ;  
C -1 ; WX 722 ; N Ugrave ; B 79 -19 644 929 ;  
C -1 ; WX 612 ; N Delta ; B 6 0 608 688 ;  
C -1 ; WX 556 ; N thorn ; B 58 -207 517 718 ;  
C -1 ; WX 333 ; N twosuperior ; B 4 281 323 703 ;  
C -1 ; WX 778 ; N Odieresis ; B 39 -19 739 901 ;  
C -1 ; WX 556 ; N mu ; B 68 -207 489 523 ;  
C -1 ; WX 278 ; N igrave ; B -13 0 184 734 ;  
C -1 ; WX 556 ; N ohungarumlaut ; B 35 -14 521 734 ;  
C -1 ; WX 667 ; N Eogonek ; B 86 -220 633 718 ;  
C -1 ; WX 556 ; N dcroat  
; B 35 -15 550 718 ;  
C -1 ; WX 834 ; N threequarters ; B 45 -19 810 703 ;  
C -1 ; WX 667 ; N Scedilla ; B 49 -225 620 737 ;  
C -1 ; WX 299 ; N lcaron ; B 67 0 311 718 ;  
C -1 ; WX 667 ; N Kcommaaccent ; B 76 -225 663 718 ;  
C -1 ; WX 556 ; N Lacute ; B 76 0 537 929 ;  
C -1 ; WX 1000 ; N trademark ; B 46 306 903 718 ;  
C -1 ; WX 556 ; N edotaccent ; B 40 -15 516 706 ;  
C -1 ; WX 278 ; N Igrave ; B -13 0 188 929 ;  
C -1 ; WX 278 ; N Imacron ; B -17 0 296 879 ;  
C -1 ; WX 556 ; N Lcaron ; B 76 0 537 718 ;  
C -1 ; WX 834 ; N onehalf ; B 43 -19 773 703 ;  
C -1 ; WX 549 ; N lessequal ; B 26 0 523 674 ;  
C -1 ; WX 556 ; N ocircumflex ; B 35 -14 521 734 ;  
C -1 ; WX 556 ; N ntilde ; B 65 0 491 722 ;  
C -1 ; WX 722 ; N Uhungarumlaut ; B 79 -19 644 929 ;  
C -1 ; WX 667 ; N Eacute ; B 86 0 616 929 ;  
C -1 ; WX 556 ; N emacron ; B 40 -15 516 684 ;  
C -1 ; WX 556 ; N gbreve ; B 40 -220 499 731 ;  
C -1 ; WX 834 ; N onequarter ; B 73 -19 756 703 ;  
C -1 ; WX 667 ; N Scaron ; B 49 -19 620 929 ;  
C -1  
; WX 667 ; N Scommaaccent ; B 49 -225 620 737 ;  
C -1 ; WX 778 ; N Ohungarumlaut ; B 39 -19 739 929 ;  
C -1 ; WX 400 ; N degree ; B 54 411 346 703 ;  
C -1 ; WX 556 ; N ograve ; B 35 -14 521 734 ;  
C -1 ; WX 722 ; N Ccaron ; B 44 -19 681 929 ;  
C -1 ; WX 556 ; N ugrave ; B 68 -15 489 734 ;  
C -1 ; WX 453 ; N radical ; B -4 -80 458 762 ;  
C -1 ; WX 722 ; N Dcaron ; B 81 0 674 929 ;  
C -1 ; WX 333 ; N rcommaaccent ; B 77 -225 332 538 ;  
C -1 ; WX 722 ; N Ntilde ; B 76 0 646 917 ;  
C -1 ; WX 556 ; N otilde ; B 35 -14 521 722 ;  
C -1 ; WX 722 ; N Rcommaaccent ; B 88 -225 684 718 ;  
C -1 ; WX 556 ; N Lcommaaccent ; B 76 -225 537 718 ;

C -1 ; WX 667 ; N Atilde ; B 14 0 654 917 ;  
C -1 ; WX 667 ; N Aogonek ; B 14 -225 654 718 ;  
C -1 ; WX 667 ; N Aring ; B 14 0 654 931 ;  
C -1 ; WX 778 ; N Otilde ; B 39 -19 739 917 ;  
C -1 ; WX 500 ; N zdotaccent ; B 31 0 469 706 ;  
C -1 ; WX 667 ; N Ecaron ; B 86 0 616 929 ;  
C -1 ; WX 278 ; N Iogonek ; B -3 -225 211 718 ;  
C -1 ; WX 500 ; N kcommaaccent ;  
B 67 -225 501 718 ;  
C -1 ; WX 584 ; N minus ; B 39 216 545 289 ;  
C -1 ; WX 278 ; N Icircumflex ; B -6 0 285 929 ;  
C -1 ; WX 556 ; N ncaron ; B 65 0 491 734 ;  
C -1 ; WX 278 ; N tcommaaccent ; B 14 -225 257 669 ;  
C -1 ; WX 584 ; N logicalnot ; B 39 108 545 390 ;  
C -1 ; WX 556 ; N odieresis ; B 35 -14 521 706 ;  
C -1 ; WX 556 ; N udieresis ; B 68 -15 489 706 ;  
C -1 ; WX 549 ; N notequal ; B 12 -35 537 551 ;  
C -1 ; WX 556 ; N gcommaaccent ; B 40 -220 499 822 ;  
C -1 ; WX 556 ; N eth ; B 35 -15 522 737 ;  
C -1 ; WX 500 ; N zcaron ; B 31 0 469 734 ;  
C -1 ; WX 556 ; N ncommaaccent ; B 65 -225 491 538 ;  
C -1 ; WX 333 ; N onesuperior ; B 43 281 222 703 ;  
C -1 ; WX 278 ; N imacron ; B 5 0 272 684 ;  
C -1 ; WX 556 ; N Euro ; B 0 0 0 0 ;

EndCharMetrics

StartKernData

StartKernPairs 2705

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KPX A Ccaron -30

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KPX A O -30

KPX A Oacute -30

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KPX

A Ograve -30

KPX A Ohungarumlaut -30

KPX A Omacron -30

KPX A Oslash -30

KPX A Otilde -30

KPX A Q -30

KPX A T -120

KPX A Tcaron -120

KPX A Tcommaaccent -120

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-30  
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KPX quoteright  
r -50  
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KPX r aring -10  
KPX r atilde -10  
KPX r colon 30  
KPX r comma -50  
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KPX r icircumflex 15  
KPX r idieresis 15  
KPX r igrave 15  
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KPX r k 15

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r umacron 15  
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KPX r uring 15  
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KPX racute k 15  
KPX racute kcommaaccent 15  
KPX racute l 15  
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KPX racute lcommaaccent 15  
KPX racute lslash 15  
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udieresis 15  
KPX racute ugrave 15  
KPX racute uhungarumlaut 15  
KPX racute umacron 15  
KPX racute uogonek 15  
KPX racute uring 15  
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KPX rcaron aring -10  
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KPX rcaron colon 30  
KPX rcaron comma -50  
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KPX rcaron iacute 15  
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KPX rcaron igrave 15  
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EndKernPairs  
EndKernData  
EndFontMetrics

Found in path(s):

\* /opt/cola/permits/1022970885\_1618843459.05/0/itext-jar/com/lowagie/text/pdf/fonts/Helvetica.afm

## 1.221 tftp-hpa 0.29

### 1.221.1 Available under license :

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```
.\" *- nroff *- ----- *  
.\" $Id$  
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.\n  
.\n----- \*/

Found in path(s):

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.8.in  
\*

/opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftp.1.in

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\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.c

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\*  
\* @(#)extern.h 8.1 (Berkeley) 6/6/93  
\*/

Found in path(s):

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/extern.h

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

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\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/config.h

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Found in path(s):

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftp.c

\*

/opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpsubs.c

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/main.c

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

/\*

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\*

\* @(#)tftpsubs.h 8.1 (Berkeley) 6/6/93

\*/

Found in path(s):

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftp/tftpsubs.h

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

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\*

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\*

\* ----- \*/

Found in path(s):

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/recvfrom.h

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/remap.h

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/recvfrom.c

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/remap.c

\*

/opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/tftpd.h

\* /opt/cola/permits/1111969033\_1611222394.3/0/distrotech-tftp-hpa-tftp-hpa-0-29-0-gd849153-tar-gz/Distrotech-tftp-hpa-f603e8d/tftpd/misc.c

## 1.222 mini-xml 2.6

### 1.222.1 Available under license :

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October 18, 2005

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Version 2, June 1991

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That's all there is to it!



# 1.223 mail 1.3

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Version 1.1

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```
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Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

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Chris Prince <cprince@google.com>

Chris Taylor <taylorc@google.com>

Dan Egnor <egnor@google.com>

Eric Roman <eroman@chromium.org>

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Ji Sigursson <joi@google.com>

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Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>

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Markus Heule <markus.heule@gmail.com>

Mika Raento <mikie@iki.fi>

Mikls Fazekas <mfazekas@szemafor.com>

Pasi Valminen <pasi.valminen@gmail.com>

Patrick Hanna <phanna@google.com>

Patrick Riley <pfr@google.com>

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Sean McAfee <eefacm@gmail.com>

Sigurur sgeirsson <siggi@google.com>  
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## 1.234 multipath-tools 0.4.9-111.el7

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## 1.237 d-bus 1.4.1

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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.)

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,

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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 License.

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

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

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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

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

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

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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.

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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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.

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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.

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

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

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

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Version 2, June 1991

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"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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- 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



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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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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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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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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WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are  
attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com

- Initiated the project;
- setup the project infrastructure (CVS, web page, etc.);
- early prototype routines.

Ross Johnson rpj at callisto dot canberra dot edu dot au

- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

Robert

Colquhoun rjc at trump dot net dot au

- Early bug fixes.

John E. Bossom John dot Bossom at cognos dot com

- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

Anders Norlander anorland at hem2 dot passagen dot se

- Early enhancements and runtime checking for supported  
Win32 routines.

Tor Lillqvist tml at iki dot fi

- General enhancements;
- early bug fixes to condition variables.

Scott Lightner scott at curriculum dot com

- Bug fix.

Kevin Ruland Kevin dot Ruland at anheuser-busch dot com

Various bug fixes.

Mike Russo miker at eai dot com  
Bug fix.

Mark E. Armstrong avail at pacbell dot net  
Bug fixes.

Lorin Hochstein lmh at xiphos dot ca  
general bug fixes; bug fixes to condition variables.

Peter Slacik Peter dot Slacik at tatramed dot sk  
Bug fixes.

Mumit Khan khan at xraylith dot wisc dot edu  
Fixes to work with Mingw32.

Milan Gardian mg  
at tatramed dot sk  
Bug fixes and reports/analyses of obscure problems.

Aurelio Medina aureliom at crt dot com  
First implementation of read-write locks.

Graham Dumpleton Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au  
Bug fix in condition variables.

Tristan Savatier tristan at mpegtv dot com  
WinCE port.

Erik Hensema erik at hensema dot xs4all dot nl  
Bug fixes.

Rich Peters rpeters at micro-magic dot com

Todd Owen towen at lucidcalm dot dropbear dot id dot au  
Bug fixes to dll loading.

Jason Nye jnye at nbnet dot nb dot ca  
Implementation of async cancelation.

Fred Forester fforest at eticomm dot net

Kevin D. Clark kclark at cabletron dot com

David Baggett dmb at itasoftware dot com  
Bug fixes.

Paul Redondo paul at matchvision dot com

Scott McCaskill scott at 3dfx dot com  
Bug fixes.

Jef Gearhart jgearhart at tpssys dot com  
Bug fix.

Arthur Kantor akantor at bexusa dot com  
Mutex enhancements.

Steven  
Reddie smr at essemmer dot com dot au  
Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com  
Re-implemented and improved read-write locks;  
(with Louis Thomas) re-implemented and improved  
condition variables;  
enhancements to semaphores;  
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.

Thomas Pfaff tpfaff at gmx dot net  
Changes to make C version usable with C++ applications; re-implemented mutex routines to avoid Win32 mutexes and TryEnterCriticalSection; procedure to fix Mingw32 thread-safety issues.

Franco Bez franco dot bez at gmx dot de  
procedure to fix Mingw32 thread-safety issues.

Louis Thomas lthomas at arbitrade dot com  
(with Alexander Terekhov) re-implemented and improved condition variables.

David Korn dgk at research dot att dot com  
Ported to UWIN.

Phil Frisbie, Jr. phil at hawksoft dot com  
Bug fix.

Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de  
Bug fix.

prionx at junodotcom prionx at junodotcom  
Bug fixes.

Max Woodbury mtew at cds dot duke dot edu  
POSIX versioning conditionals; reduced namespace pollution; idea to separate routines to reduce statically linked image sizes.

Rob Fanner rfanner at stonethree dot com  
Bug fix.

Michael Johnson michaelj at maine dot rr dot com  
Bug fix.

Nicolas Barry boozai at yahoo dot com  
Bug fixes.

Piet van Bruggen pietvb at newbridges dot nl  
Bug fix.

Makoto Kato raven at oldskool dot jp  
AMD64 port.

Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr  
Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible.

Will Bryant will dot bryant at ecosm dot com  
Borland compiler patch and makefile.

Anuj Goyal anuj dot goyal at gmail dot com  
Port to Digital Mars compiler.

Gottlob Frege gottlobfrege at gmail dot com  
re-implemented pthread\_once (version 2)

(pthread\_once cancellation added by rpj).  
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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```
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```

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/* * 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">
```

```
<class>License</class>
```

```
<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">
```

```
<sizepolicy>
```

```
<hsizetype>7</hsizetype>
```

```
<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">
    <property
name="name">
      <cstring>Layout92</cstring>
    </property>
    <vbox>
      <property name="name">
        <cstring>unnamed</cstring>
      </property>
      <property name="margin">
        <number>0</number>
      </property>
      <property name="spacing">
        <number>0</number>
      </property>
      <widget class="QLayoutWidget">
        <property name="name">
          <cstring>Layout91</cstring>
        </property>
        <hbox>
          <property name="name">
            <cstring>unnamed</cstring>
          </property>
          <property name="margin">
            <number>0</number>
          </property>
          <property name="spacing">
            <number>0</number>
          </property>
          <widget class="QLabel">
            <property name="name">
              <cstring>title</cstring>
            </property>
            <property name="paletteBackgroundColor">
              <color>
                <red>255</red>
                <green>255</green>
                <blue>255</blue>
              </color>
            </property>

```

```

        <property name="lineWidth">
            <number>0</number>
        </property>
        <property name="margin">
            <number>11</number>
        </property>
    </widget>
    <widget class="QLabel">
        <property
name="name">
            <cstring>image</cstring>
        </property>
        <property name="sizePolicy">
            <sizepolicy>
                <hsizetype>0</hsizetype>
                <vsizetype>0</vsizetype>
                <horstretch>0</horstretch>
                <verstretch>0</verstretch>
            </sizepolicy>
        </property>
        <property name="lineWidth">
            <number>0</number>
        </property>
        <property name="pixmap">
            <pixmap>image0</pixmap>
        </property>
        <property name="scaledContents">
            <bool>true</bool>
        </property>

    </widget>
</hbox>
</widget>
<widget class="Line">
    <property name="name">
        <cstring>Line11</cstring>
    </property>
    <property name="frameShape" stdset="0">
        <enum>HLine</enum>
    </property>
    <property name="frameShadow">
        <enum>Sunken</enum>
    </property>
    <property name="orientation">
        <enum>Horizontal</enum>
    </property>
</widget>
</vbox>

```

```

</widget>
<widget class="QWidget">
  <property name="name">
    <cstring>Layout93</cstring>
  </property>
  <vbox>
    <property name="name">
      <cstring>unnamed</cstring>
    </property>
    <property
name="margin">
      <number>11</number>
    </property>
    <property name="spacing">
      <number>6</number>
    </property>
    <widget class="QLabel">
      <property name="name">
        <cstring>instructions</cstring>
      </property>
      <property name="sizePolicy">
        <sizepolicy>
          <hsizetype>5</hsizetype>
          <vsizetype>5</vsizetype>
          <horstretch>0</horstretch>
          <verstretch>0</verstretch>
        </sizepolicy>
      </property>
      <property name="textFormat">
        <enum>RichText</enum>
      </property>
    </widget>
    <widget class="QTextEdit">
      <property name="name">
        <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">
        <enum>PlainText</enum>
      </property>
    </widget>

```

```

<widget class="QLabel">
  <property name="name">
    <cstring>question</cstring>
  </property>
  <property name="sizePolicy">
    <sizepolicy>
      <hsizetype>5</hsizetype>
      <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
3054d2e152d253485650360003105719c44d0303b0ac9e3210e8e941d87a2026980da2417c301bcc51c66423a941d60
b37b3d69a0b00818720fe</data>
  </image>
</images>
<layoutdefaults spacing="6" margin="11"/>
</UI>

```

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

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

March 29, 2012

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qt3: property 'paletteBackgroundColor' for widget 'title' of type 'QLabel' is not supported. Line: 64 Column: 47

## 1.239 curl 7.19.4

### 1.239.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

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## 1.240 util-linux 2.19.0

### 1.240.1 Available under license :

| 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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WEV @@ WEV[B "1

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```
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
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!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
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## 1.241 qt 5.4.0

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# Please keep the list sorted.
#
Andrew Dasonville <dasonville.andrew@gmail.com>
Jimmy Casey <casey.jimmy@gmail.com>
Nigel Tao <nigeltao@golang.org>
# Contributors to the OpenH264 project
```

Patrick Ai  
Sijia Chen  
ZhaoZheng Chu  
Paley Du  
Martin Ettl  
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3.1.0 / 2017-09-26

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- \* 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

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- \* Fix: Disable colors in Edge and Internet Explorer (#489)

### 3.0.0 / 2017-08-08

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- \* 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

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- \* remove ReDoS regexp in %o formatter (#504)

### 2.6.8 / 2017-05-18

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- \* Fix: Check for undefined on browser globals (#462, @marbemac)

### 2.6.7 / 2017-05-16

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- \* 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

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- \* 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

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- \* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
- \* Docs: Changelog fix (@thebigredgeek)

#### 2.6.2 / 2017-03-10

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- \* 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

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- \* 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-maintained `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, @vkarпов15)
- \* 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, @mlucol)
- \* 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, @panuhorsmalahiti)

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

\*\*\*\*\*

/\* Base64 - a simple base64 encoder and decoder.

/\*

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That's all there is to it!

/\*

\* 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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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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This package is a JavaScript porting of `wcwidth()` implementation  
[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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Changes:

- Rings created from the reference rectangle file.
- earthcloudmapcolortrans.png was made from the earthcloudmapspec.jpg file
- # timers-browserify

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\* MODP\_B64 - High performance base64 encoder/decoder

\* Version 1.3 -- 17-Mar-2006

\* <http://modp.com/release/base64>

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David Neto <dneto@google.com>
Andrew Woloszyn <awoloszyn@google.com>
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Dejan Mircevski <deki@google.com>
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Jaydeep Patil  
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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.

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#### Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--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.

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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 "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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(Hereinafter, translation is included without limitation in the term "modification".)

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

3. You may opt to apply the terms of the ordinary GNU General Public

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library".

The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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  
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(in either source or binary form) with the major  
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```

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/*
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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-separated
list',
    '  --direct look for direct dependencies only',
    '  --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
    '  --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated
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 delimiters 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 coloredKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
            json[coloredKey] = 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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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>  
Tom Chao <chaot@google.com>  
Max Cai <maxtroy@google.com>  
Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>  
Joseph Schorr <jschorr@google.com>  
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>  
Frank Yellin  
Neal Norwitz <nnorwitz@google.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ambrose  
Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>  
\* Small patch to handle trailing slashes in --proto\_path flag.  
Johan Euphrosine <proppy@aminche.com>  
\* Small patch to fix Python CallMethod().  
Ulrich Kunitz <kune@deine-taler.de>  
\* Small optimizations to Python serialization.  
Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.  
Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.  
Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.  
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.  
Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.  
Alek Storm <alek.storm@gmail.com>

\* Slicing support for repeated scalar fields for the Python API.  
Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.  
Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.  
Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing  
all fields (only present with certain compiler settings).  
\* Added generation of field number constants.  
Wink Saville <wink@google.com>  
\* Fixed initialization ordering problem in logging code.  
Will Pierce <willp@nuclei.com>  
\* Small patch improving performance of in Python serialization.  
Alexandre Vassalotti <alexandre@peadrop.com>  
\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).  
Scott Stafford <scott.stafford@gmail.com>  
\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.  
Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.  
Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.  
Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only  
once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.  
Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().  
Kacper Kowalik <xarthisius.kk@gmail.com>  
\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.  
William Orr <will@worrbase.com>  
\* Fixed detection of sched\_yield on Solaris.  
\* Added atomicops for Solaris  
Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)

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"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

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- (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.

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"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.

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"Party" or "Parties" shall mean Licensee and/or The Qt Company.

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"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

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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 thirty (30) 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 notification 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 thirty (30) 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

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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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### 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.

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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.

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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.

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### 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.

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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.

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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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### 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

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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:

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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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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<br>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<br>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 |   |   | X |   |      |   |  |
| Tools                          |   |   |   |   |      |   |  |
| qtconfig-gui                   |   |   | X |   |      |   |  |
| Qt Emulator                    |   |   | X |   |      |   |  |
| Qmlinterfacegenerator          |   |   |   | X |      |   |  |
| Qmltoccpp                      |   |   |   | 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         | 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                                   |            |            |         |             |          |            |    |
| X  |            |            |         |             |          |            |    |
| Deployment                                   |            |            |         |             |          |            |    |
| -----+                                       |            |            |         |             |          |            |    |
| Qt Creator Plugin for Qt Application Manager |            | X          |         | X           |          |            |    |
| -----+                                       |            |            |         |             |          |            |    |
| Qt Automotive Suite                          |            | X          |         |             |          |            |    |
| Deployment Server                            |            |            |         |             |          |            |    |
| -----+                                       |            |            |         |             |          |            |    |
| Qt Design Studio                             |            | X          |         |             |          |            |    |
| -----+                                       |            |            |         |             |          |            |    |

|   |  |   |  |  |   |   |  |
|---|--|---|--|--|---|---|--|
| Qt 3D Studio  |  | X |  |  |   |   |  |
| GammaRay  |  | X |  |  | X |   |  |
| Platform adaptations<br>for specified<br>Deployment Platforms |  |   |  |  |   | X |  |
| Qt for Device<br>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 company).

#### 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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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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Based on original fortran 77 code from FFTPACKv4 from NETLIB, authored by Dr Paul Swarztrauber of NCAR, in 1985.

As confirmed by the NCAR fftpack software curators, the following FFTPACKv5 license applies to FFTPACKv4 sources. My changes are released under the same terms.

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<http://www.cisl.ucar.edu/css/software/fftpack5/ftpk.html>

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dynamic\_annotations

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eigen3

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```
CXXFLAGS: -DEIGEN_MPL2_ONLY
```

This will cause a compilation error to be generated if you #include any code that is LGPL licensed.

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Following

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  
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./test/unalignedcount.cpp  
./test/triangular.cpp  
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./test/corners.cpp  
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./test/visitor.cpp  
./test/geo\_alignedbox.cpp  
./test/diagonalmatrices.cpp  
./test/product\_small.cpp  
./test/eigensolver\_generalized\_real.cpp  
./test/umfpack\_support.cpp  
./test/first\_aligned.cpp  
./test/qr\_fullpivoting.cpp  
./test/array\_replicate.cpp  
./test/geo\_parametrizedline.cpp

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./Eigen/src/Core/PermutationMatrix.h  
./Eigen/src/Core/NumTraits.h  
./Eigen/src/Core/MatrixBase.h  
./Eigen/src/Core/DenseStorage.h  
./Eigen/src/Core/util/Memory.h  
./Eigen/src/Core/util/StaticAssert.h  
./Eigen/src/Core/util/BlasUtil.h  
./Eigen/src/Core/util/MatrixMapper.h  
./Eigen/src/Core/util/XprHelper.h  
./Eigen/src/Core/util/ForwardDeclarations.h  
./Eigen/src/Core/util/Meta.h  
./Eigen/src/Core/util/Macros.h  
./Eigen/src/Core/util/Constants.h  
./Eigen/src/Core/CwiseNullaryOp.h  
./Eigen/src/Core/Block.h  
./Eigen/src/Core/GeneralProduct.h

./Eigen/src/Core/CommaInitializer.h  
./Eigen/src/Core/ReturnByValue.h  
./Eigen/src/Core/Stride.h  
./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h  
./Eigen/src/SparseLU/SparseLU\_column\_dfs.h  
./Eigen/src/SparseLU/SparseLU\_panel\_dfs.h  
./Eigen/src/SparseLU/SparseLU\_relax\_snode.h  
./Eigen/src/SparseLU/SparseLU\_panel\_bmod.h  
./Eigen/src/SparseLU/SparseLU\_SupernodalMatrix.h  
./Eigen/src/SparseLU/SparseLU\_Utils.h  
./Eigen/src/SparseLU/SparseLU\_gemm\_kernel.h  
./Eigen/src/SparseLU/SparseLU\_kernel\_bmod.h  
./Eigen/src/SparseLU/SparseLU\_pivotL.h  
./Eigen/src/SparseLU/SparseLU\_Memory.h  
./Eigen/src/SparseLU/SparseLU\_heap\_relax\_snode.h  
./Eigen/src/SparseLU/SparseLUImpl.h  
./Eigen/src/SparseLU/SparseLU\_copy\_to\_ucol.h  
./Eigen/src/SparseLU/SparseLU\_Structs.h  
./Eigen/src/SparseLU/SparseLU.h  
./Eigen/src/SparseLU/SparseLU\_column\_bmod.h  
./Eigen/src/SparseLU/SparseLU\_pruneL.h  
./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h  
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h  
./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h  
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h  
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./Eigen/src/Cholesky/LLT.h  
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./Eigen/src/MetisSupport/MetisSupport.h  
./Eigen/StdVector  
./Eigen/Core  
./Eigen/SparseLU  
./Eigen/StdList  
./Eigen/StdDeque  
./Eigen/SparseCholesky  
./scripts/relicense.py  
./scripts/relicense.py  
./blas/BandTriangularSolver.h  
./blas/PackedTriangularMatrixVector.h  
./blas/complex\_double.cpp  
./blas/level2\_real\_impl.h  
./blas/level1\_cplx\_impl.h  
./blas/level1\_impl.h  
./blas/level1\_real\_impl.h  
./blas/level3\_impl.h

./blas/single.cpp  
./blas/level2\_cplx\_impl.h  
./blas/PackedSelfadjointProduct.h  
./blas/Rank2Update.h  
./blas/complex\_single.cpp  
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- ./Eigen/src/SVD/JacobiSVD\_MKL.h
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- ./Eigen/src/PardisoSupport/PardisoSupport.h
- ./Eigen/src/Core/Assign\_MKL.h
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- ./Eigen/src/Core/products/SelfadjointMatrixMatrix\_MKL.h



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Following applies

to:

./test/metis\_support.cpp

./test/sparselu.cpp

./unsupported/test/mpreal/mpreal.h

./unsupported/Eigen/src/IterativeSolvers/IterationController.h

./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h

./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h

./Eigen/src/OrderingMethods/Amd.h

./Eigen/src/SparseCholesky/SimplicialCholesky\_impl.h

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`./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h`

`./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h`

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freetype2

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2006-Jan-27

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--- end of FTL.TXT ---

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#### Mesa Component Licenses

| Component        | Location                                 | Primary       |                  |
|------------------|--|---------------|------------------|
| Author           | License                                  |               |                  |
| Main Mesa code   | src/mesa/                                | Brian Paul    | Mesa (MIT)       |
| Device drivers   | src/mesa/drivers/*                       | See drivers   | See drivers      |
| Ext headers      | include/GL/glxt.h<br>include/GL/glxext.h | SGI           | SGI Free B       |
| GLUT             | src/glut/                                | Mark Kilgard  | Mark's copyright |
| GLEW             | src/glew-1.13.0                          | Nigel Stewart | Modified BSD     |
| Mesa GLU library | src/glu/mesa/                            | Brian Paul    | GNU-LGPL         |
| SGI GLU library  | src/glu/sgi/                             | SGI           | SGI Free B       |
| demo programs    | progs/demos/                             | various       | see source files |
| X demos          | progs/xdemos/                            | Brian Paul    | see source files |
| SGI demos        | progs/samples/                           | SGI           | SGI copyright    |
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java/android\_libs/protobuf\_nano

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javascript/jquery\_ui

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/exoplayer

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libunwind

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libvorbis

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libxcb

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Libxml2, an XML C Parser

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minizip

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zlib

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Jean-loup Gailly      Mark Adler  
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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openctm

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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utf

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xmpmeta

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jsoncpp

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libwebp

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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--- end of GPLv2.TXT ---

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Agreement version 3.0

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"Support Term" shall mean the Initial Support Term and any possible Support Renewal Terms(s) during which time the Licensee is eligible to receive for Support for the Licensed Software.

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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.

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/\*

\* Written by Wilco Dijkstra, 1996. The following email exchange establishes the  
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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

\*/

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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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/\*  
\* \$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.  
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Mesa 3-D graphics library

Version: 7.0

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# debug

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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:

```
  
  

```

#### 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:

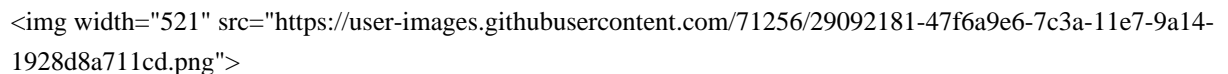
```
```.js
"windowsDebug":
"@powershell -Command $env:DEBUG='*';node app.js",
```.
```

## ## 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.

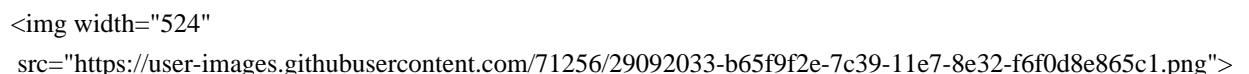
### #### Node.js

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.



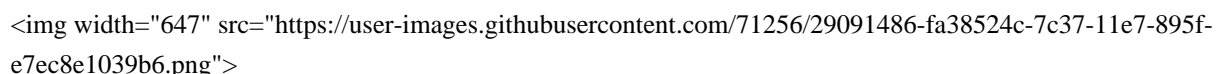
### #### Web Browser

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).

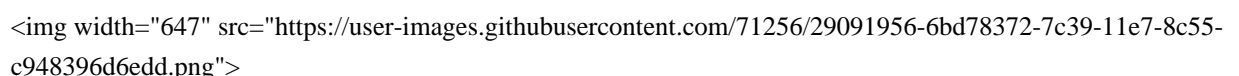


## ## Millisecond diff

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   |
|----------------------------------|---|
| <code>`DEBUG`</code>             | Enables/disables specific debugging namespaces.   |
| <code>`DEBUG_HIDE_DATE`</code>   | Hide date from debug output (non-TTY).            |
| <code>`DEBUG_COLORS`</code>      | Whether or not to use colors in the debug output. |
| <code>`DEBUG_DEPTH`</code>       | Object inspection depth.                          |
| <code>`DEBUG_SHOW_HIDDEN`</code> | 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](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](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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node-http-proxy

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Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter Kaminski <piotrk@google.com>  
Preston  
Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean McAfee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
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# <https://developers.google.com/open-source/cla/corporate>  
#  
# Names should be added to this file as:



# Name <email address>

Mark Mentovai <mark@chromium.org>

Robert Sesek <rsesek@chromium.org>

Scott Graham <scottmg@chromium.org>

Joshua Peraza <jperaza@chromium.org>

Esprea

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^tools/utis/qtcreator/

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language: node\_js

node\_js:

- "6"

- "8"

cache:

directories:

- "node\_modules"

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Upstream-Name: perfetto

Source: <https://android.googlesource.com/platform/external/perfetto/>

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac\_dsp\_gpl.asm`
  - `libavcodec/x86/idct\_mmx.c`
  - `libavfilter/x86/vf\_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make\_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/\*`
  - `tests/tiny\_ssim.c`

-

the following filters in libavfilter:

- `signature\_lookup.c`
- `vf\_blackframe.c`
- `vf\_boxblur.c`
- `vf\_colormatrix.c`
- `vf\_cover\_rect.c`
- `vf\_croptdetect.c`
- `vf\_delogo.c`
- `vf\_eq.c`
- `vf\_find\_rect.c`
- `vf\_fspp.c`
- `vf\_histeq.c`
- `vf\_hqdn3d.c`
- `vf\_kerndeint.c`
- `vf\_lensfun.c` (GPL version 3 or later)
- `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
- freiOr
- 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.

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Srinivasan Venkatachary <vsri@google.com>  
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functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the 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 the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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The 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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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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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.

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data structure

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Authors:

Branimir Vasic (bvasic@mips.com)  
Darko Laus (darko@mips.com)  
Djordje Pesut (djordje@mips.com)  
Goran Cordasic (goran@mips.com)  
Nedeljko Babic (nedeljko.babic)  
Mirjana Vulin (mvulin@mips.com)  
Stanislav Ocovaj (socovaj@mips.com)  
Zoran Lukic (zoranl@mips.com)  
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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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```

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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos 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)](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)](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/3370ce87a7618ba228883861db84ddbdcff252a9)](https://github.com/npm/nopt/commit/3370ce87a7618ba228883861db84ddbdcff252a9)  
Simplify initialization. ([@elidoran](https://github.com/elidoran))  
\* [[356e58e`](https://github.com/npm/nopt/commit/356e58e3b3b431a4b1af7fd7bdee44c2c0526a09)](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)](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)](https://github.com/npm/nopt/commit/07c69d38b5186450941fbb505550becb78a0e925)  
Simplify key-value extraction. ([@elidoran](https://github.com/elidoran))  
\* [[39b6e5c`](https://github.com/npm/nopt/commit/39b6e5c65ac47f60cd43a1fbeece5cd4c834c254)](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)](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)](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)](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)](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)](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/c0d156f229f9994c5dfcec4a8886e9eff7a07682)
The code sample in the README had `many2: [ oneThing ]`, and now it has
`many2: [ two, things ]`. ([@silkenentrance](https://github.com/silkenentrance))
## *-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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source: <https://github.com/johan/world.geo.json>

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WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

-----

Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com

- Initiated the project;
- setup the project infrastructure (CVS, web page, etc.);
- early prototype routines.

Ross Johnson rpj at callisto dot canberra dot edu dot au

- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

Robert

Colquhoun rjc at trump dot net dot au

- Early bug fixes.

John E. Bossom John dot Bossom at cognos dot com

- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

Anders Norlander anorland at hem2 dot passagen dot se

- Early enhancements and runtime checking for supported Win32 routines.

Tor Lillqvist tml at iki dot fi

- General enhancements;
- early bug fixes to condition variables.

Scott Lightner scott at curriculum dot com

- Bug fix.

Kevin Ruland Kevin dot Ruland at anheuser-busch dot com

- Various bug fixes.

Mike Russo miker at eai dot com

- Bug fix.

Mark E. Armstrong avail at pacbell dot net

- Bug fixes.

Lorin Hochstein lmh at xiphos dot ca

- general bug fixes; bug fixes to condition variables.

Peter Slacik Peter dot Slacik at tatramed dot sk

Bug fixes.

Mumit Khan khan at xraylith dot wisc dot edu  
Fixes to work with Mingw32.

Milan Gardian mg  
at tatramed dot sk  
Bug fixes and reports/analyses of obscure problems.

Aurelio Medina aureliom at crt dot com  
First implementation of read-write locks.

Graham Dumpleton Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au  
Bug fix in condition variables.

Tristan Savatier tristan at mpegv dot com  
WinCE port.

Erik Hensema erik at hensema dot xs4all dot nl  
Bug fixes.

Rich Peters rpeters at micro-magic dot com

Todd Owen towen at lucidcalm dot dropbear dot id dot au  
Bug fixes to dll loading.

Jason Nye jnye at nbnet dot nb dot ca  
Implementation of async cancelation.

Fred Forester fforest at eticomm dot net

Kevin D. Clark kclark at cabletron dot com

David Baggett dmb at itasoftware dot com  
Bug fixes.

Paul Redondo paul at matchvision dot com

Scott McCaskill scott at 3dfx dot com  
Bug fixes.

Jef Gearhart jgearhart at tpssys dot com  
Bug fix.

Arthur Kantor akantor at bexusa dot com  
Mutex enhancements.

Steven  
Reddie smr at essemr dot com dot au  
Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com  
Re-implemented and improved read-write locks;  
(with Louis Thomas) re-implemented and improved  
condition variables;  
enhancements to semaphores;  
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.

Thomas Pfaff tpfaff at gmx dot net  
Changes to make C version usable with C++ applications;  
re-implemented mutex routines to avoid Win32 mutexes  
and TryEnterCriticalSection;

procedure to fix Mingw32 thread-safety issues.  
Franco Bez franco dot bez at gmx dot de  
procedure to fix Mingw32 thread-safety issues.  
Louis Thomas lthomas at arbitrade dot com  
(with Alexander Terekhov) re-implemented and improved  
condition variables.  
David Korn dgk at research  
dot att dot com  
Ported to UWIN.  
Phil Frisbie, Jr. phil at hawksoft dot com  
Bug fix.  
Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de  
Bug fix.  
prionx at junos dot com prionx at junos dot com  
Bug fixes.  
Max Woodbury mtew at cds dot duke dot edu  
POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically  
linked image sizes.  
Rob Fanner rfanner at stonethree dot com  
Bug fix.  
Michael Johnson michaelj at maine dot rr dot com  
Bug fix.  
Nicolas Barry boozai at yahoo dot com  
Bug fixes.  
Piet van Bruggen pietvb at newbridges dot nl  
Bug fix.  
Makoto Kato raven at oldskool dot jp  
AMD64 port.  
Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr  
Contributed the QueueUserAPCEx package which  
makes preemptive async cancelation possible.  
Will Bryant will dot bryant at ecosm dot com  
Borland compiler patch and makefile.  
Anuj Goyal anuj dot goyal at gmail  
dot com  
Port to Digital Mars compiler.  
Gottlob Frege gottlobfrege at gmail dot com  
re-implemented pthread\_once (version 2)  
(pthread\_once cancellation added by rpj).  
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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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) Dean McNamee <dean@gmail.com>, 2012.  
C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

<https://github.com/deanm/css-color-parser-js>  
<https://github.com/kkaefer/css-color-parser-cpp>

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#

# All lines in this file are patterns, including the comment lines; this  
# means that e.g. `FTL.TXT` matches all files that have this string in  
# the file name (including the path relative to the current directory,  
# always starting with `./`).

#

# 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/bdfdriivr.c

src/bdf/bdfdriivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

```
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
EOF
```

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```

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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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Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Krystian Kuzniarek <krystian.kuzniarek@gmail.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>  
Patrick Riley <pfr@google.com>  
Peter  
Kaminski <piotrk@google.com>  
Preston Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
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Tracy Bialik <tracy@pentad.com>  
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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz  
immerrr again  
Alexander Artemenko  
Aymeric Augustin  
Lee Ball  
Ben Bariteau  
Ned Batchelder  
Wouter Bolsterlee  
Brett Cannon  
Jason R. Coombs  
Julien Danjou  
Ben Darnell  
Ben Davis  
Jon Dufresne  
Tim Graham  
Thomas Grainger  
Max Grender-Jones  
Joshua Harlow  
Toshiki Kataoka  
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Anselm Kruis  
Ivan Levkivskyi  
Alexander Lukanin  
James Mills  
Jordan Moldow  
Berker Peksag  
Sridhar Ratnakumar  
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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 delimiters 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
  repository: https://github.com/isaacs/node-lru-cache
  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-separated list
- \* `--packages [list]`` restrict output to the packages (package@version) in the semicolon-separated list
- \* `--excludePackages [list]`` restrict output to the packages (package@version) not in the semicolon-separated 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](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. There's 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`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `\*` next to the name of the license to show that we "guessed" at it.

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\* IAccessible2 IDL Specification

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# spdx-license-ids

[![npm version](https://img.shields.io/npm/v/spdx-license-ids.svg)](https://www.npmjs.com/package/spdx-license-ids)

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A list of [SPDX license](https://spdx.org/licenses/) identifiers

## 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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2006-Jan-27

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o freetype-devel@nongnu.org

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jloup@gzip.org     madler@alumni.caltech.edu  
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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  
 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  
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| Release        | Derived<br>from | Year      | Owner      | GPL-<br>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                      |

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|---------------|-----------|----------|-----|-----|
| 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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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.

#### 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   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 |     |   |  |  |
| qmltoccpp                            |  |   |   | 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 /                                         | Qt for Automation Software | Qt Suite | Qt Safe | Qt Renderer | Qt Application Manager | Qt Gammaray | Qt Deployment |
|---------------------------------------------------|----------------------------|----------|---------|-------------|------------------------|-------------|---------------|
| Qt MQTT                                           | X,R                        |          |         |             |                        |             |               |
| Qt KNX                                            | X,R                        |          |         |             |                        |             |               |
| Qt OPC UA                                         | X,R                        |          |         |             |                        |             |               |
| Qt CoAP                                           | X,R                        |          |         |             |                        |             |               |
| Qt Safe<br>Renderer                               |                            | X,R      | X,R     |             |                        |             |               |
| Qt<br>Application<br>Manager                      |                            |          | X,R     |             | X,R                    |             |               |
| Qt IVI                                            |                            | X,R      |         |             |                        |             |               |
| Reference UI                                      |                            | X,R      |         |             |                        |             |               |
| Qt GENIVI<br>Extras                               |                            | X,R      |         |             |                        |             |               |
| QML Live                                          |                            | X        |         |             |                        |             |               |
| Qt Creator<br>Deployment                          |                            | X        |         |             |                        |             |               |
| Qt Creator<br>Plugin for<br>Qt<br>X               |                            |          | X       |             |                        |             |               |
| Application<br>Manager                            |                            |          |         |             |                        |             |               |
| Qt<br>Automotive<br>Suite<br>Deployment<br>Server |                            |          | X       |             |                        |             |               |

Qt Design | | X | | | | |

Studio | | | | | | | |

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Qt 3D Studio| | X | | | | | |

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GammaRay

| | X | | | X |

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Platform | | | | | | | |

adaptations | | | | | | | |

for | | | | | | X

specified | | | | | | | |

Deployment | | | | | | | |

Platforms | | | | | | | |

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Qt for | | | | | | | |

Device | | X | | | | | |

Creation | | | | | | | |

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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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Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

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WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING  
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Authors: Loren Merritt <lorenm@u.washington.edu>

Anton Mitrofanov <BugMaster@narod.ru>

Jason Garrett-Glaser <darkshikari@gmail.com>

Henrik Gramner <hengar-6@student.ltu.se>

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By: Adrian Heine

Repository: <https://github.com/adrianheine/acorn-import-meta>

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine

Repository: <https://github.com/acornjs/acorn.git>

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Sharygin, hemanth.hm

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Repository: <https://github.com/tapjs/signal-exit.git>

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Repository: sindresorhus/time-zone

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Repository: micromatch/to-regex-range

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## turbocolor

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By: Jorge Bucaran

Repository: jorgebucaran/turbocolor

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Benoit Sigoure <tsuna@google.com>

Bogdan Pilca <boo@google.com>



Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>  
Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and U4422C) 08/2014

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```

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```
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reporting:

reports:

- lcov
- text
- text-summary

check:

global:

- statements: 95
- lines: 95
- branches: 90
- functions: 100

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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

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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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-----  
The following individuals and institutions are among the Contributors:

- \* Aaron C. Meadows <cmake@shadowguarddev.com>
- \* Adriaan de Groot <groot@kde.org>
- \* Aleksey Avdeev <solo@altlinux.ru>
- \* Alexander Neundorf <neundorf@kde.org>
- \* Alexander Smorkalov <alexander.smorkalov@itseez.com>
- \* Alexey Sokolov <sokolov@google.com>
- \* Alex Turbov <i.zaufi@gmail.com>
- \* Andreas Pakulat <apaku@gmx.de>
- \*
- Andreas Schneider <asn@cryptomilk.org>
- \* Andr Rigland Brodtkorb <Andre.Brodtkorb@ifi.uio.no>
- \* Axel Huebl, Helmholtz-Zentrum Dresden - Rossendorf
- \* Benjamin Eikel
- \* Bjoern Ricks <bjoern.ricks@gmail.com>
- \* Brad Hards <bradh@kde.org>
- \* Christopher Harvey
- \* Christoph Grninger <foss@grueninger.de>
- \* Clement Creusot <creusot@cs.york.ac.uk>
- \* Daniel Blezek <blezek@gmail.com>
- \* Daniel Pfeifer <daniel@pfeifer-mail.de>
- \* Enrico Scholz <enrico.scholz@informatik.tu-chemnitz.de>
- \* Eran Ifrah <eran.ifrah@gmail.com>
- \* Esben Mose Hansen, Ange Optimization ApS
- \* Geoffrey Viola <geoffrey.viola@asirobots.com>
- \* Google Inc

\* Gregor Jasny  
\* Helio Chissini de Castro <helio@kde.org>  
\* Ilya Lavrenov <ilya.lavrenov@itseez.com>  
\* Insight Software Consortium <insightsoftwareconsortium.org>  
\* Jan Woetzel  
\* Kelly Thompson <kgt@lanl.gov>  
\* Konstantin Podsvirov <konstantin@podsvirov.pro>  
\* Mario Bensi <mbensi@ipsquad.net>  
\* Mathieu Malaterre <mathieu.malaterre@gmail.com>  
\* Matthaëus G. Chajdas  
\* Matthias  
Kretz <kretz@kde.org>  
\* Matthias Maennich <matthias@maennich.net>  
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\* Miguel A. Figueroa-Villanueva  
\* Mike Jackson  
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\* Patrick Stotko <stotko@cs.uni-bonn.de>  
\* Per yvind Karlsen <peroyvind@mandriva.org>  
\* Peter Collingbourne <peter@pcc.me.uk>  
\* Petr Gotthard <gotthard@honeywell.com>  
\* Philip Lowman <philip@yhbt.com>  
\* Philippe Proulx <pproulx@efficios.com>  
\* Raffi Enficiaud, Max Planck Society  
\* Raumfeld <raumfeld.com>  
\* Roger Leigh <rleigh@codelibre.net>  
\* Rolf Eike Beer <eike@sf-mail.de>  
\* Roman Donchenko <roman.donchenko@itseez.com>  
\* Roman Kharitonov <roman.kharitonov@itseez.com>  
\* Ruslan Baratov  
\* Sebastian Holtermann <sebholt@xwmw.org>  
\* Stephen Kelly <steveire@gmail.com>  
\* Sylvain Joubert <joubert.sy@gmail.com>  
\* Thomas Sondergaard <ts@medical-insight.com>  
\*  
Tobias Hunger <tobias.hunger@qt.io>  
\* Todd Gamblin <tgamblin@llnl.gov>  
\* Tristan Carel  
\* University of Dundee  
\* Vadim Zhukov  
\* Will Dicharry <wdicharry@stellarscience.com>

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# Names should be added to this file as:

# Name <email address>

Google Inc.

Nicolas Capens <capn@google.com>

Alexis Htu <sugoi@google.com>

Shannon Woods <shannonwoods@google.com>

Corentin Wallez <cwallez@google.com>

Greg Hartman <ghartman@google.com>

Ping-Hao Wu <pinghao@google.com>

Maxime Grgoire <mgregoire@google.com>

Veranika Liaukevich <veranika@google.com>

John Bauman <jbauman@google.com>

Keun Soo Yim <yim@google.com>

John Sheu <sheu@google.com>

Philippe Hamel <hamelphi@google.com>

Daniel Toyama <kenjitoyama@google.com>

Meng-Lin Wu <marleymoo@google.com>

Krzysztof Kosiski <krzysio@google.com>

Chris

Forbes <chrisforbes@google.com>

Ben Clayton <bclayton@google.com>

Hernan Liatis <hliatis@google.com>

Logan (Tzu-hsiang) Chien <loganchien@google.com>

Stephen White <senorblanco@google.com>

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Yasm developers and/or contributors include:

Peter Johnson

Michael Urman

Brian Gladman (Visual Studio build files, other fixes)

Stanislav Karchebny (options parser)

Mathieu Monnier (SSE4 instruction patches, NASM preprocessor additions)

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Henryk Richter (Mach-O object format)

Ben Skeggs (patches, bug reports)

Alexei Svitkine (GAS preprocessor)

Samuel Thibault (TASM parser and frontend)

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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('UNLICENSED'), unlicensed);
```

```

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#### Corresponding

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```

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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)
}
(Copied from the COPYRIGHT file of
https://code.google.com/p/sctp-refimpl/source/browse/trunk/COPYRIGHT)
-----

```

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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](mailto: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  
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

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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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The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).



I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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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

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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.

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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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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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(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 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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```

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(c) Dean McNamee <[dean@gmail.com](mailto:dean@gmail.com)>, 2012.

C++ port by Mapbox, Konstantin Kfer <[mail@kkaefer.com](mailto: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/955bbf6070ffc9f0d01ef37bb84ffb6c65e007b) 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/8cea3dcf1d185dc3ae3f37f44a82d7e123a1988) 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/1cda118e1aa18cc391ba2765dcca89172943a0f) fix: replace problematic 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/a6ee2904eb7fced220dcfe8548f80ec74fde3a2) 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 sgtcdck/master (@sgtcdck)  
- [6547ac1](https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e) Removed obsolete d[key].name assignment from tests (@sgtcdck)  
- [00b18a6](https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd) Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtcdck)  
- [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/fe06eaeef8844d050ad0f80d576a221dd605131de) Fixed replace (@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/2c80d9d2dcc59340698630144256096a91e23f22) 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/ba946dd1065e762c36b27dcecd9bb7389ad18d4) 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/ddd317a5a09344f0021812b8dee2f39b9bbbf07a0) 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/c9948c4b7b2ccccdd053ba63f4fd2a6a6d0a46493) 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/efe23d991cfc40dc6980fbf13461408da822b1f)  
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/0479570faf87ecc9b37fbb25afaee7faaec6636)  
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/11e204c5c078eae1f165fa010da229d2a9fb4b5)  
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/47bffc9e0e249b2847c8ed4f3eaadb0dcd731b9)  
Always print to stdout, don't write files. (@timoxley)  
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfdbf0994867577d4c5e3dc0ee2a)  
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 insensitive  
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/6f390fff60b31a07939e6d325796bdcfbefb5907)  
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 unnecessary 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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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/zip/adler32.c
src/zip/infblock.c
src/zip/infblock.h
src/zip/infcodes.c
src/zip/infcodes.h
src/zip/inffixed.h
src/zip/inflate.c
src/zip/inftrees.c
src/zip/inftrees.h
src/zip/infutil.c
src/zip/infutil.h
src/zip/zconf.h
```

```
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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Send patches to [sysvinit-devel@nongnu.org](mailto: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](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.248 spring-jdbc 3.1.4.RELEASE

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- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/TransactionDefinition.java
- \*
- /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
- \*
- /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/Transactional.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
- \*
- /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/JtaTransactionManager.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
- \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
- \*

/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java  
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```
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
*
/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/CannotSerializeTransactionException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/DataIntegrityViolationException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/UncategorizedDataAccessException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/DataAccessResourceFailureException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java
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/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/TransactionTimedOutException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
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jar/org/springframework/dao/DeadlockLoserDataAccessException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/CannotCreateTransactionException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/NoTransactionException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/NestedTransactionNotSupportedException.java  
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/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/dao/CannotAcquireLockException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/dao/InvalidDataAccessApiUsageException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/InvalidTimeoutException.java  
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jar/org/springframework/dao/TypeMismatchDataAccessException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/dao/support/DaoSupport.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/UnexpectedRollbackException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
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jar/org/springframework/dao/CleanupFailureDataAccessException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-  
jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/core/RecordCreator.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionHolder.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java  
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jar/org/springframework/jca/cci/core/ConnectionCallback.java
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jar/org/springframework/dao/NonTransientDataAccessException.java
*
/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/cci/core/InteractionCallback.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
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jar/org/springframework/dao/RecoverableDataAccessException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
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* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
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jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
*
/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/support/ResourceHolder.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
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* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
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*
/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
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jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
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* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/cci/core/RecordExtractor.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/support/ResourceHolderSupport.java
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jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
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/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/context/SpringContextResourceAdapter.java
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jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/support/SimpleTransactionStatus.java
*
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/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/TransactionFactory.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronization.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/DuplicateKeyException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionTemplate.java  
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/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/work/SimpleTaskWorkManager.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttribute.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/support/DataAccessUtils.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java  
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/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java  
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jar/org/springframework/transaction/TransactionStatus.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
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* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/annotation/Isolation.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
*
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jar/org/springframework/transaction/support/AbstractTransactionStatus.java
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jar/org/springframework/jca/cci/CannotCreateRecordException.java
*
/opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/transaction/SavepointManager.java
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jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
* /opt/cola/permits/1136045344_1613665200.06/0/spring-tx-3-1-4-release-sources-1-
jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java  
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/jta/OC4JJaTransactionManager.java  
\*  
/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/QueryTimeoutException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAspectUtils.java  
\*  
/opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/EmptyResultDataAccessException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java  
\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java  
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  - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionCallback.java
  - \*
    - /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAware.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/TransactionOperations.java
    - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
    - \*
      - /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
      - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
      - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
      - \* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
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\* /opt/cola/permits/1136045344\_1613665200.06/0/spring-tx-3-1-4-release-sources-1-jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java

## 1.250 commons-pool 1.2

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\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/impl/SoftReferenceObjectPool.java

\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/impl/StackObjectPoolFactory.java

\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/impl/GenericObjectPoolFactory.java

\*

/opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/ObjectPoolFactory.java

\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/BasePoolableObjectFactory.java

\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-jar/org/apache/commons/pool/impl/StackObjectPool.java

\* /opt/cola/permits/1136046059\_1613665097.16/0/commons-pool-1-2-sources-1-

```

jar/org/apache/commons/pool/ObjectPool.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/impl/StackKeyedObjectPoolFactory.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/impl/GenericObjectPool.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/impl/GenericKeyedObjectPool.java
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/opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/impl/GenericKeyedObjectPoolFactory.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/BaseKeyedPoolableObjectFactory.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/KeyedObjectPoolFactory.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/BaseKeyedObjectPool.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/impl/StackKeyedObjectPool.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/BaseObjectPool.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/PoolableObjectFactory.java
* /opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/KeyedObjectPool.java
*
/opt/cola/permits/1136046059_1613665097.16/0/commons-pool-1-2-sources-1-
jar/org/apache/commons/pool/KeyedPoolableObjectFactory.java

```

# 1.251 commons-dbcp 1.2.1

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\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/KeyedCPDSConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingStatement.java  
\*  
/opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingConnection.java  
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\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/UserPassKey.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingConnection.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedObjectPool.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java  
\*  
/opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSourceFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingCallableStatement.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/BasicDataSource.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolablePreparedStatement.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingDataSource.java  
\*  
/opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/SQLNestedException.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/ConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedConfig.java



\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DbcException.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/AbandonedTrace.java  
\*  
/opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/BasicDataSourceFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/jocl/ConstructorUtil.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/jocl/JOCLContentHandler.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PoolKey.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/CPDSConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DriverConnectionFactory.java  
\*  
/opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolingDriver.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolableConnectionFactory.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/PoolableConnectionImpl.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/PoolableConnection.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/DelegatingPreparedStatement.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java  
\* /opt/cola/permits/1136045037\_1613665206.23/0/commons-dbc-1-2-1-sources-1-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSourceFactory.java

## 1.252 opensaml-java 2.5.3

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# 1.254 alsa 1.0.28

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```
*/  
group gUnitTestResult;
```

```
testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
```

```
-----  
<title> with <num_of_test> tests  
-----
```

```
<num_of_failure> failures found:
```

```
<failure: { <it.header>
```

```
expected: <it.expectedResult>
```

```
actual: <it.actualResult>
```

```
>>
```

```
<if(has_invalid)>
```

```
<num_of_invalid> invalid inputs found:
```

```
<invalid: { <it.header>
```

```
invalid
```

```
input: <it.actual>
```

```
>>
```

```
<endif>
```

```
Tests run: <num_of_test>, Failures: <num_of_failure>
```

```
>>
```

```
Found in path(s):
```

```
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/gUnitTestResult.stg
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\* /opt/cola/permits/1136959957\_1613980668.79/0/gunit-3-2-sources-1-jar/org/antlr/gunit/JUnitCodeGen.java  
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jar/org/antlr/gunit/swingui/model/TestCaseInputMultiString.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
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jar/org/antlr/gunit/swingui/runner/ParserLoader.java
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jar/org/antlr/gunit/swingui/model/TestCaseOutputResult.java
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jar/org/antlr/gunit/swingui/runner/NotifiedTestExecuter.java
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jar/org/antlr/gunit/swingui/model/TestCase.java
*
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jar/org/antlr/gunit/swingui/runner/gUnitAdapter.java
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jar/org/antlr/gunit/swingui/model/ITestCaseInput.java
* /opt/cola/permits/1136959957_1613980668.79/0/gunit-3-2-sources-1-
jar/org/antlr/gunit/swingui/WorkSpaceController.java
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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/DeleteVolumeRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/autoscaling/model/LimitExceededException.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/autoscaling/AmazonAutoScalingAsync.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/autoscaling/model/transform/DescribeAutoScalingGroupsResultUnmarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/elasticmapreduce/model/JobFlowInstancesConfig.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/rds/model/transform/DBParameterGroupUnmarshaller.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/rds/model/transform/DeleteDBSnapshotRequestMarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/DescribeRegionsRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/Placement.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/transform/InstanceAttributeUnmarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/RunInstancesResult.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/DescribeDhcpOptionsRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/elasticloadbalancing/model/DisableAvailabilityZonesForLoadBalancerRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/sqs/model/transform/SetQueueAttributesRequestUnmarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/autoscaling/model/transform/CreateAutoScalingGroupRequestUnmarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/sqs/AmazonSQSClient.java

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/opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/elasticmapreduce/AmazonElasticMapReduceClient.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/EbsBlockDevice.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/rds/model/DeleteDBInstanceRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/transform/CreateCustomerGatewayResultUnmarshaller.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/ec2/model/CreateImageRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/rds/model/transform/DBSecurityGroupAlreadyExistsExceptionUnmarshaller.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-

jar/com/amazonaws/services/s3/Headers.java



\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/http/HttpMethodName.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/S3Object.java

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/opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/util/XmlUtils.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/ListVersionsRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/http/HttpRequest.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/transform/VoidUnmarshaller.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/S3ErrorResponseHandler.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/model/GetObjectMetadataRequest.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/transform/StandardErrorUnmarshaller.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/MD5DigestCalculatingInputStream.java

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\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/services/s3/internal/S3XmlResponseHandler.java

\* /opt/cola/permits/1136959973\_1613980638.37/0/aws-java-sdk-1-0-000-sources-1-jar/com/amazonaws/util/VersionInfoUtils.java

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jar/com/amazonaws/http/HttpMethodReleaseInputStream.java
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### Preamble

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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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\* Authors:

\* Eric Anholt <eric@anholt.net>

\*

\*/



Found in path(s):

```
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/updatedraw.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/getstats.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/drmtest.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/getclient.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/setversion.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/auth.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/getversion.c
*
/opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/drmtest.h
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/lock.c
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/openclose.c
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```

```
/******
```

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```
*****/
```

Found in path(s):

```
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/r300_reg.h
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```

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```

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```

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```

```
AC_PREREQ(2.57)
```

```
AC_INIT([libdrm], 2.4.0, [dri-devel@lists.sourceforge.net], libdrm)
```

```
AC_CONFIG_SRCDIR([Makefile.am])
```

```
AM_INIT_AUTOMAKE([dist-bzip2])
```

```
AM_CONFIG_HEADER([libdrm/config.h])
```

```
AC_DISABLE_STATIC
```

```
AC_PROG_LIBTOOL
```

```
AC_PROG_CC
```

```
AC_HEADER_STDC
```

```
AC_SYS_LARGEFILE
```

```
pkgconfigdir=${libdir}/pkgconfig
```

```
AC_SUBST(pkgconfigdir)
```

```
AC_OUTPUT([
```

```
  Makefile
```

```
  libdrm/Makefile
```

```
  shared-core/Makefile
```

```
  tests/Makefile
```

```
  libdrm.pc])
```

```
Found in path(s):
```

```
* /opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/configure.ac
```

```
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```

```
/* drmstat.c -- DRM device status and testing program
```

```
* Created: Tue Jan 5 08:19:24 1999 by faith@precisioninsight.com
```

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\* Authors: Rickard E. (Rik) Faith <faith@valinux.com>  
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Found in path(s):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/drmstat.c

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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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Found in path(s):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/mach64\_drm.h

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\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/libdrm/xf86drm.c  
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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  
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\*  
\* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),  
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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  
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\*  
\* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In  
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\*  
\*/

Found in path(s):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-  
2.4.0/libdrm/xf86drmRandom.c

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\*/

/\*

\* This is really talking about planes, and we could rename it  
\* except for the fact that some of the duplicated i915\_drm.h files  
\* out there check for HAVE\_I915\_FLIP and so might pick up this  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/i915\_drm.h

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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):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/radeon\_drm.h

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- \* Kevin E. Martin <martin@valinux.com>

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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:  
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\*

\* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:  
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\*

\* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April  
\* 1988, pp. 446-457.

\*

\*/

Found in path(s):

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/libdrm/xf86drmHash.c

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/\* savage\_drm.h -- Public header for the savage driver

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```
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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):

```
*/opt/cola/permits/1146940406_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/libdrm/xf86drmSL.c
```

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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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Found in path(s):

\*/opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/mga\_drm.h

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\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/via\_3d\_reg.h

\* /opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/shared-core/via\_drm.h

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\* Authors: Rickard E. (Rik) Faith <faith@valinux.com>  
\*  
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Found in path(s):

\*/opt/cola/permits/1146940406\_1689570454.187764/0/libdrm-2-4-0-tar-bz2/libdrm-2.4.0/tests/dristat.c

# 1.264 iproute 4.10.0

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# 1.266 gsoap 2.6

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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](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.272 uclibc 0.9.30

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Received: from localhost (localhost [127.0.0.1])  
by localhost (Postfix) with ESMTP id B8C814E4F  
for <[mps@bridge.intra](mailto: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](mailto: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](mailto: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  
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Received: (from gsf@localhost)  
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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: IJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca  
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

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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 and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
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}
```

```
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```

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- for the support of the Fujitsu-Siemens Activy budget DVB-S
  
- Kenneth Aafly <ke-aa@frisurf.no>
  
- for adding support for Typhoon DVB-S budget card
  
- Ernst Peinlich <e.peinlich@inode.at>
  
- for tuning/DiSEqC support for the DEC 3000-s
  
- Peter Beutner <p.beutner@gmx.net>
  
- for the IR code for the ttusb-dec driver
  
- Wilson Michaels <wilsonmichaels@earthlink.net>
  
- for the lgdt330x frontend driver, and various bugfixes
  
- Michael Krufky <mkrufky@linuxtv.org>
  
- for maintaining v4l/dvb inter-tree dependencies
  
- Taylor Jacob <rtjacob@earthlink.net>
  
- for the nxt2002 frontend driver

- Jean-Francois Thibert  
<jeanfrancois@sagetv.com>

- 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  
line to the DVB mailing list)

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```
<one line to give the library's name and a brief idea of what it does.>  
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```

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

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-- Tom St Denis

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# 1.275 procps 3.2.8

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in object code or executable form with such  
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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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

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

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

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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

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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.)

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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:

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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.

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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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.

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## 1.278 libusb-compat 4.4.4

### 1.278.1 Available under license :

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## 1.279 mtd-utils 1.5.0

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/\*

Unix SMB/CIFS implementation.

trivial database library

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# 1.290 Idap 1.2

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Manifest-Version: 1.0

Build-Time: 2013-Sep-21 07:43:25

Implementation-Title: OpenAM Shared Components

Implementation-Version: 10.1.0-Xpress - 2013-Sep-21 07:43:25

Specification-Vendor: ForgeRock

Class-Path: lib/jss4-2007-08-11.jar lib/json-20090211.jar lib/commons-lang-2.4.jar lib/commonEmail-2.0.jar lib/slf4j-api-1.7.2.jar lib/mail-1.4.5.jar lib/activation-1.1.jar lib/oro-2.0.7.jar lib/slf4j-jdk14-1.7.2.jar

Built-By: build

Create-On: 2013-Sep-21 07:43:25

Created-By: Apache Maven

Version: 10.1.0-Xpress

Implementation-Vendor: ForgeRock

SVN-Revision: R2354

Build-Jdk: 1.6.0\_29

Specification-Title: OpenAM Shared Components

License:

Specification-Version: 10.1.0-Xpress - 2013-Sep-21 07:43:25

Archiver-Version: Plexus Archiver

Found in path(s):

\* /opt/cola/permits/1262663461\_1659111670.9353685/0/openam-shared-10-1-0-xpress-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1262663461\_1659111670.9353685/0/openam-shared-10-1-0-xpress-jar/META-

INF/maven/org.forgerock.openam/openam-shared/pom.xml

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/opt/cola/permits/1262663461\_1659111670.9353685/0/openam-shared-10-1-0-xpress-jar/com/sun/identity/shared/OAuth2Constants\$OAuth2ProviderService.class: binary file matches  
/opt/cola/permits/1262663461\_1659111670.9353685/0/openam-shared-10-1-0-xpress-jar/com/sun/identity/shared/ldap/LDAPException.class: binary file matches  
/opt/cola/permits/1262663461\_1659111670.9353685/0/openam-shared-10-1-0-xpress-jar/com/sun/identity/shared/ldap/client/opers/JDAPResult.class: binary file matches

Found in path(s):

\* /bin/grep

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*
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```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1283432138_1646722275.6/0/opencsv-2-0-sources-  
jar/au/com/bytecode/opencsv/CSVReader.java
```

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\* /opt/cola/permits/1283432138\_1646722275.6/0/opencsv-2-0-sources-jar/au/com/bytecode/opencsv/bean/ColumnPositionMappingStrategy.java

\* /opt/cola/permits/1283432138\_1646722275.6/0/opencsv-2-0-sources-jar/au/com/bytecode/opencsv/bean/HeaderColumnNameMappingStrategy.java

\*

/opt/cola/permits/1283432138\_1646722275.6/0/opencsv-2-0-sources-jar/au/com/bytecode/opencsv/bean/HeaderColumnNameTranslateMappingStrategy.java

\* /opt/cola/permits/1283432138\_1646722275.6/0/opencsv-2-0-sources-jar/au/com/bytecode/opencsv/bean/MappingStrategy.java

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## 1.298 openam-rest 10.1.0-Xpress

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Manifest-Version: 1.0  
Build-Time: 2013-Sep-21 07:43:25  
Implementation-Title: OpenAM REST  
Implementation-Version: 10.1.0-Xpress - 2013-Sep-21 07:43:25  
Specification-Vendor: ForgeRock  
Class-Path: lib/openam-shared-10.1.0-Xpress.jar lib/jss4-2007-08-11.jar lib/commons-lang-2.6.jar lib/commonEmail-2.0.jar lib/slf4j-api-1.7.2.jar lib/mail-1.4.5.jar lib/activation-1.1.jar lib/oro-2.0.7.jar lib/slf4j-jdk14-1.7.2.jar lib/openam-entitlements-10.1.0-Xpress.jar lib/openam-core-token-10.1.0-Xpress.jar lib/jsr311-api-1.1.1.jar lib/json-20090211.jar  
Built-By: build  
Create-On: 2013-Sep-21 07:43:25  
Created-By: Apache Maven  
Version: 10.1.0-Xpress  
Implementation-Vendor: ForgeRock  
SVN-Revision: R2354  
Build-Jdk: 1.6.0\_29  
Specification-Title: OpenAM REST  
License:  
Specification-Version: 10.1.0-Xpress - 2013-Sep-21 07:43:25  
Archiver-Version: Plexus Archiver

Found in path(s):

\* /opt/cola/permits/1373079940\_1659111738.6488647/0/openam-rest-10-1-0-xpress-jar/META-INF/MANIFEST.MF

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\*/opt/cola/permits/1373079940\_1659111738.6488647/0/openam-rest-10-1-0-xpress-jar/META-INF/maven/org.forgerock.openam/openam-rest/pom.xml

# 1.299 grub2 2.02-0.87.0.3.el7

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```
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```

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```
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```

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## 1.300 jaxrpc-api 1.1

## 1.300.1 Available under license :

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
  </parent>

  <groupId>com.sixdimensions.commons.osgi.wrapper</groupId>
  <artifactId>jaxrpc-api</artifactId>
  <packaging>bundle</packaging>
  <version>1.1</version>

  <name />
  <description>This bundle wraps jaxrpc-api-1.1.jar and makes it work in Apache Felix.</description>
  <url>https://github.com/SixDimensions/jaxrpc-api</url>
  <inceptionYear>2014</inceptionYear>

  <organization>
    <name>Six Dimensions</name>
    <url>http://www.sixdimensions.com</url>
  </organization>
  <developers>
    <developer>
      <name>Dan Klco</name>
      <email>dan.klco@sixdimensions.com</email>
    </developer>
  </developers>
  <licenses>
    <license>
      <name>Apache
License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    </license>
  </licenses>
  <scm>
    <url>git@github.com:SixDimensions/jaxrpc-api.git</url>
    <developerConnection>scm:git:git@github.com:SixDimensions/jaxrpc-api.git</developerConnection>
    <connection>scm:git:git@github.com:SixDimensions/jaxrpc-api.git</connection>
  </scm>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>
```

```

<build>
<plugins>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<version>2.3.7</version>
<extensions>>true</extensions>
<configuration>
<instructions>
<Embed-Dependency>
jaxrpc-api
</Embed-Dependency>
<Export-Package>
javax.xml.rpc,
javax.xml.rpc.encoding,
javax.xml.rpc.handler,
javax.xml.rpc.handler.soap,
javax.xml.rpc.holders,
javax.xml.rpc.server,
javax.xml.rpc.soap
</Export-Package>
</instructions>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-scr-plugin</artifactId>
<version>1.7.0</version>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>2.1.2</version>
<executions>
<execution>
<id>create-sources</id>
<phase>verify</phase>
<goals>
<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>
<configuration>
<attach>>false</attach>
</configuration>
</plugin>
<plugin>

```

```
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.8.1</version>
<executions>
  <execution>
    <id>create-javadoc</id>
    <phase>verify</phase>
    <goals>
      <goal>jar</goal>
    </goals>
  </execution>
</executions>
</plugin>
</plugins>
</build>
```

```
<dependencies>
  <dependency>
    <groupId>javax.xml</groupId>
    <artifactId>jaxrpc-api</artifactId>
    <version>1.1</version>
  </dependency>
</dependencies>
```

```
<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>>true</value>
      </property>
    </activation>
  </profile>
</profiles>
</project>
```

Found

in path(s):

\* /opt/cola/permits/1445493785\_1669620132.5698369/0/jaxrpc-api-jaxrpc-api-1-1-1-zip/jaxrpc-api-jaxrpc-api-1.1/pom.xml

## 1.301 libnsl 2.13



## 1.301.1 Available under license :

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Version 2.1, February 1999

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## 1.303 mongoose 3.1

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# 1.304 qt 5.4.0

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Andrew Dasonville <dasonville.andrew@gmail.com>

Jimmy Casey <casey.jimmy@gmail.com>

Nigel Tao <nigeltao@golang.org>

# Contributors to the OpenH264 project

Patrick Ai

Sijia Chen

ZhaoZheng Chu

Paley Du

Martin Ettl

Andreas Gal

Xu Guang

Licai Guo

Yi Guo

Horace Huang

Steven Huang

Ethan Hugg

Cullen Jennings

Zhaofeng Jia

Derrick Jin

Jesse Li

Jifei Li

Kai Li

Karina Li

Matt Li

Xiang Li

Bourne Ling

Alex Liu

Wayne Liu

Varun Patil

Eric Rescorla

Adam Roach

Sawyer Shan  
Siping Tao  
Martin Storsj  
Brion Vibber  
James Wang  
Juanny Wang  
Zhiliang Wang  
Herv Willems  
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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

=====

- \* 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-maintained `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, @vkarпов15)
- \* 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, @mlucol)
- \* 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, @panuhorsmalahiti)

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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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Transformation Matrix v2.0



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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
```

```
/******
```

```
/* Base64 - a simple base64 encoder and decoder.
```

```
/*
```

```
/* Copyright (c) 1999, Bob Withers - bwit@pobox.com
```

```
/*
```

```
/* This code may be freely used for any purpose, either personal
```

```
/* or commercial, provided the authors copyright notice remains
```

```
/* intact.
```

```
/**
/** Enhancements by Stanley Yamane:
/**   o reverse lookup table for the decode function
/**   o reserve string buffer space in advance
/**
/*******
Copyright (c) 2013 Raynos.
```

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/\*

\* SpanDSP - a series of DSP components for telephony

\*

\* g711.h - In line A-law and u-law conversion routines

\*

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\*

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

=====

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This package is a JavaScript porting of `wcwidth()` implementation  
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Changes:

- Rings created from the reference rectangle file.
- `earthcloudmapcolortrans.png` was made from the `earthcloudmapspec.jpg` file

# timers-browserify

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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

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# Name <email address>

Lei Zhang <[antiagainst@google.com](mailto:antiagainst@google.com)>

David Neto <[dneto@google.com](mailto:dneto@google.com)>

Andrew Woloszyn <[awoloszyn@google.com](mailto:awoloszyn@google.com)>

Stefanus Du Toit <[sdt@google.com](mailto:sdt@google.com)>

Dejan Mircevski <deki@google.com>  
Mark Adams <marka@nvidia.com>  
Jason Ekstrand <jason.ekstrand@intel.com>  
Damien Mabin <dmabin@google.com>  
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Authors/contributors include:

Alex Dowad  
Alexander Monakov  
Anthony G. Basile  
Arvid Picciani  
Bobby Bingham  
Boris Brezillon  
Brent Cook  
Chris Spiegel  
Clment Vasseur  
Daniel Micay  
Denys Vlasenko  
Emil Renner Berthing  
Felix Fietkau  
Felix Janda  
Gianluca Anzolin  
Hauke Mehrtens  
Hiltjo Posthuma  
Isaac Dunham  
Jaydeep Patil  
Jens Gustedt  
Jeremy Huntwork  
Jo-Philipp Wich  
Joakim Sindholt  
John Spencer  
Josiah Worcester  
Justin Cormack  
Khem Raj

Kylie McClain  
Luca Barbato  
Luka Perkov  
M Farkas-Dyck (Strake)  
Mahesh Bodapati  
Michael Forney  
Natanael Copa  
Nicholas J. Kain  
orc  
Pascal Cuoq  
Petr Hosek  
Pierre Carrier  
Rich Felker  
Richard Pennington  
Shiz  
sin  
Solar Designer  
Stefan Kristiansson  
Szabolcs Nagy  
Timo Ters  
Trutz Behn  
Valentin Ochs  
William  
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* 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  
*  
* Despite my general liking of the GPL, I place my own contributions  
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* to my detriment.  
*  
* 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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```
#!/usr/bin/env node
```

```
/*
```

```
Copyright (c) 2013, Yahoo! Inc. All rights reserved.
```

```
Code licensed under the BSD License:
```

```
http://yuilib.com/license/
```

```
*/
```

```
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-separated
list',
    ' --direct look for direct dependencies only',
    ' --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
    ' --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated
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 delimiters 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 coloredKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
    json[coloredKey] = 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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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>

Tom Chao <chaot@google.com>

Max Cai <maxtroy@google.com>

Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>

Joseph Schorr <jschorr@google.com>

Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>

Frank Yellin

Neal Norwitz <nnorwitz@google.com>

Jeffrey Yasskin <jyasskin@google.com>

Ambrose

Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <proppy@aminche.com>

\* Small patch to fix Python CallMethod().  
Ulrich Kunitz <kune@deine-taler.de>  
\* Small optimizations to Python serialization.  
Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.  
Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.  
Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.  
Vincent Choiniere <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.  
Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.  
Alek Storm <alek.storm@gmail.com>

\* Slicing support for repeated scalar fields for the Python API.  
Oleg Smolsky <oleg.smolsky@gmail.com>  
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Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.  
Wink Saville <wink@google.com>  
\* Fixed initialization ordering problem in logging code.  
Will Pierce <willp@nuclei.com>  
\* Small patch improving performance of in Python serialization.  
Alexandre Vassalotti <alexandre@peadrop.com>  
\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).  
Scott Stafford <scott.stafford@gmail.com>  
\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.  
Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.  
Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.  
Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.  
Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().



Kacper Kowalik <xarthisius.kk@gmail.com>

\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

\* Fixed minor IBM xLC compiler build issues

\* Added atomicops for AIX (POWER)

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of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not

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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.

#### 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<br>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    |      |  |
| +-----+                          |             |      |      |  |
| Ql1r                             | 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    |  |  |  |  |  |
| +-----+                        |  |   |   |      |  |  |  |  |  |

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|                    |                   |            |          |             |          |            |    |    |  |
|--------------------|-------------------|------------|----------|-------------|----------|------------|----|----|--|
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|                    | Add-On Product(s) |            |          |             |          |            |    |    |  |
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| Modules / Tools of | Qt for            | Qt         | Qt       | 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  |      |      |      |      |   |  |   |  |  |
| X   |      |      |      |      |   |  |   |  |  |
| Deployment  |      |      |      |      |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Qt Creator Plugin for Qt Application Manager            |      | X    |      | X    |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Qt Automotive Suite                                     |      | X    |      |      |   |  |   |  |  |
| Deployment Server                                       |      |      |      |      |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Qt Design Studio  |      | X    |      |      |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Qt 3D Studio  |      | X    |      |      |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| GammaRay  |      | X    |      |      | X |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Platform adaptations for specified Deployment Platforms |      |      |      |      |   |  | X |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |
| Qt for Device Creation                                  |      | X    |      |      |   |  |   |  |  |
| +-----+   |      |      |      |      |   |  |   |  |  |

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Daniel Griscom

Suitable Systems

1 Centre Street, Suite 204

Wakefield, MA 01880

(781) 665-0053

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curl

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dynamic\_annotations

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eigen3

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```
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```

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Following

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  
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./test/unalignedcount.cpp  
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./test/product\_mmtr.cpp  
./test/sparse\_basic.cpp  
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./test/meta.cpp  
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./test/simplicial\_cholesky.cpp  
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./test/geo\_hyperplane.cpp  
./test/lu.cpp  
./test/qr.cpp  
./test/hessenberg.cpp  
./test/sizeof.cpp  
./test/main.h  
./test/selfadjoint.cpp  
./test/permutationmatrices.cpp  
./test/superlu\_support.cpp  
./test/qtvector.cpp  
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./test/array\_reverse.cpp  
./test/unalignedassert.cpp  
./test/stdlist.cpp  
./test/product\_symm.cpp  
./test/corners.cpp  
./test/dontalign.cpp  
./test/visitor.cpp  
./test/geo\_alignedbox.cpp  
./test/diagonalmatrices.cpp  
./test/product\_small.cpp  
./test/eigensolver\_generalized\_real.cpp  
./test/umfpack\_support.cpp

./test/first\_aligned.cpp  
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./test/array\_replicate.cpp  
./test/geo\_parametrizedline.cpp  
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./lapack/double.cpp  
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./demos/mix\_eigen\_and\_c/example.c  
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./demos/opengl/trackball.h  
./demos/opengl/gpuhelper.h  
./demos/opengl/trackball.cpp  
./demos/opengl/gpuhelper.cpp



./demos/opengl/quaternion\_demo.cpp  
./debug/gdb/printers.py  
./unsupported/test/minres.cpp  
./unsupported/test/openglsupport.cpp  
./unsupported/test/jacobisvd.cpp  
./unsupported/test/dgmres.cpp  
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./unsupported/test/matrix\_exponential.cpp  
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./unsupported/test/matrix\_power.cpp  
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./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h  
./unsupported/Eigen/src/MatrixFunctions/StemFunction.h  
./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h  
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h  
./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h  
./unsupported/Eigen/src/MoreVectorization/MathFunctions.h  
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h  
./unsupported/Eigen/src/FFT/ei\_fftw\_impl.h  
./unsupported/Eigen/src/FFT/ei\_kissfft\_impl.h  
./unsupported/Eigen/src/Polynomials/PolynomialSolver.h  
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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.
```

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Following applies

to:

./test/metis\_support.cpp

./test/sparselu.cpp

./unsupported/test/mpreal/mpreal.h

./unsupported/Eigen/src/IterativeSolvers/IterationController.h

./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h

./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h

./Eigen/src/OrderingMethods/Amd.h

./Eigen/src/SparseCholesky/SimplicialCholesky\_impl.h

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Version 3, 29 June 2007

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Following applies to:

./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h  
./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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freetype2

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2006-Jan-27

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o freetype@nongnu.org

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o freetype-devel@nongnu.org

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Our home page can be found at

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#### Mesa Component Licenses

| Component        | Location                                       | Primary       |                  |
|------------------|--|---------------|------------------|
| Author           | License  |               |                  |
| Main Mesa code   | src/ mesa/                                     | Brian Paul    | Mesa (MIT)       |
| Device drivers   | src/ mesa/ drivers/ *                          | See drivers   | See drivers      |
| Ext headers      | include/ GL/ glxext.h<br>include/ GL/ glxext.h | SGI           | SGI Free B       |
| GLUT             | src/ glut/                                     | Mark Kilgard  | Mark's copyright |
| GLEW             | src/ glew-1.13.0                               | Nigel Stewart | Modified BSD     |
| Mesa GLU library | src/ glu/ mesa/                                | Brian Paul    | GNU-LGPL         |
| SGI GLU library  | src/ glu/ sgi/                                 | SGI           | SGI Free B       |

|               |                |            |                  |
|---------------|----------------|------------|------------------|
| demo programs | progs/demos/   | various    | see source files |
| X demos       | progs/xdemos/  | Brian Paul | see source files |
| SGI demos     | progs/samples/ | SGI        | SGI copyright    |
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java/android\_libs/protobuf\_nano

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javascript/jquery\_ui

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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libogg

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libunwind

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libvorbis

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libxcb

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libxml

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Libxml2, an XML C Parser

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lodepng

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LodePNG

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minizip

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zlib

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mongoose

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objective\_c/gtm\_session\_fetcher

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openctm

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There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution.

If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

<http://www.freetype.org>

--- end of FDL.TXT ---

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Version 2, June 1991

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## LIABILITY.

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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.

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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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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 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.

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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

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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:

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- The Licensed Software's help tool ("Qt Assistant")
- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate",

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- The Licensed Software's QML ("Qt Quick") launcher tool ("qmlscene" and "qmlviewer")

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- 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

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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

\*

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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  
\* single-thread writer.

\*

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Mesa 3-D graphics library

Version: 7.0

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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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# debug

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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:

```




```

#### 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                                           |
|---------------------------------|---------------------------------------------------|
| <code>DEBUG`</code>             | Enables/disables specific debugging namespaces.   |
| <code>DEBUG_HIDE_DATE`</code>   | Hide date from debug output (non-TTY).            |
| <code>DEBUG_COLORS`</code>      | Whether or not to use colors in the debug output. |
| <code>DEBUG_DEPTH`</code>       | Object inspection depth.                          |
| <code>DEBUG_SHOW_HIDDEN`</code> | 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](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](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: 68656c6c6620776f726c6421 +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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node-http-proxy

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# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>  
Balzs Dn <balazs.dan@gmail.com>  
Bharat Mediratta <bharat@menalto.com>  
Chandler Carruth <chandlerc@google.com>  
Chris Prince <cprince@google.com>  
Chris Taylor <taylorc@google.com>  
Dan Egnor <egnor@google.com>  
Eric Roman <eroman@chromium.org>  
Hady Zalek <hady.zalek@gmail.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ji Sigursson <joi@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
Kenton Varda <kenton@google.com>  
Manuel Klimek <klimek@google.com>  
Markus Heule <markus.heule@gmail.com>  
Mika Raento <mikie@iki.fi>  
Mikls Fazekas <mfazekas@szemafor.com>  
Pasi Valminen <pasi.valminen@gmail.com>  
Patrick Hanna <phanna@google.com>

Patrick Riley <pfr@google.com>  
Peter Kaminski <piotr@google.com>  
Preston  
Jackson <preston.a.jackson@gmail.com>  
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>  
Russ Cox <rsc@google.com>  
Russ Rufer <russ@pentad.com>  
Sean McAfee <eefacm@gmail.com>  
Sigurur sgeirsson <siggi@google.com>  
Tracy Bialik <tracy@pentad.com>  
Vadim Berman <vadimb@google.com>  
Vlad Losev <vladl@google.com>  
Zhanyong Wan <wan@google.com>  
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#  
# Names should be added to this file as:  
# Name <email address>

Mark Mentovai <mark@chromium.org>  
Robert Seseke <rseseke@chromium.org>  
Scott Graham <scottmg@chromium.org>  
Joshua Peraza <jperaza@chromium.org>  
Espree  
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^tools/utls/qtcreator/

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language: node\_js

node\_js:

- "6"

- "8"

cache:

directories:

- "node\_modules"

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`cssmin.py` - A Python port of the YUI CSS compressor.

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Viatcheslav Ostapenko <sl.ostapenko@samsung.com>  
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Authors:

Branimir Vasic (bvasic@mips.com)  
Darko Laus (darko@mips.com)  
Djordje Pesut (djordje@mips.com)  
Goran Cordasic (goran@mips.com)  
Nedeljko Babic (nedeljko.babic  
Mirjana Vulin (mvulin@mips.com)  
Stanislav Ocovaj (socovaj@mips.com)  
Zoran Lukic (zoranl@mips.com)  
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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 [inexorabletaash@gmail.com](mailto:inexorabletaash@gmail.com)

// <https://github.com/inexorabletaash/polyfill>

// ES3/ES5 implementation of the Khronos 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/3370ce87a7618ba228883861db84ddbdcff252a9)  
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/c0d156f229f9994c5dfcec4a8886e9eff7a07682)
The code sample in the README had `many2: [ oneThing ]`, and now it has
`many2: [ two, things ]`. ([@silkenentrance](https://github.com/silkenentrance))
## *-makefile*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## 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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source: <https://github.com/johan/world.geo.json>

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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.

-----

Contributors (in approximate order of appearance)

[See also the ChangeLog file where individuals are attributed in log entries. Likewise in the FAQ file.]

Ben Elliston bje at cygnus dot com

- Initiated the project;
- setup the project infrastructure (CVS, web page, etc.);
- early prototype routines.

Ross Johnson rpj at callisto dot canberra dot edu dot au

- early prototype routines;
- ongoing project coordination/maintenance;
- implementation of spin locks and barriers;
- various enhancements;
- bug fixes;
- documentation;
- testsuite.

Robert

Colquhoun rjc at trump dot net dot au

- Early bug fixes.

John E. Bossom John dot Bossom at cognos dot com

- Contributed substantial original working implementation;
- bug fixes;
- ongoing guidance and standards interpretation.

Anders Norlander anorland at hem2 dot passagen dot se

Early enhancements and runtime checking for supported Win32 routines.

Tor Lillqvist tml at iki dot fi  
General enhancements;  
early bug fixes to condition variables.

Scott Lightner scott at curriculum dot com  
Bug fix.

Kevin Ruland Kevin dot Ruland at anheuser-busch dot com  
Various bug fixes.

Mike Russo miker at eai dot com  
Bug fix.

Mark E. Armstrong avail at pacbell dot net  
Bug fixes.

Lorin Hochstein lmh at xiphos dot ca  
general bug fixes; bug fixes to condition variables.

Peter Slacik Peter dot Slacik at tatramed dot sk  
Bug fixes.

Mumit Khan khan at xraylith dot wisc dot edu  
Fixes to work with Mingw32.

Milan Gardian mg  
at tatramed dot sk  
Bug fixes and reports/analyses of obscure problems.

Aurelio Medina aureliom at crt dot com  
First implementation of read-write locks.

Graham Dumpleton Graham dot Dumpleton at ra dot pad dot otc dot telstra dot com dot au  
Bug fix in condition variables.

Tristan Savatier tristan at mpegv dot com  
WinCE port.

Erik Hensema erik at hensema dot xs4all dot nl  
Bug fixes.

Rich Peters rpeters at micro-magic dot com

Todd Owen towen at lucidcalm dot dropbear dot id dot au  
Bug fixes to dll loading.

Jason Nye jnye at nbnet dot nb dot ca  
Implementation of async cancelation.

Fred Forester fforest at eticomm dot net

Kevin D. Clark kclark at cabletron dot com

David Baggett dmb at itasoftware dot com  
Bug fixes.

Paul Redondo paul at matchvision dot com

Scott McCaskill scott at 3dfx dot com  
Bug fixes.

Jef Gearhart jgearhart at tpssys dot com  
Bug fix.

Arthur Kantor akantor at bexusa dot com  
Mutex enhancements.

Steven

Reddie smr at essemers dot com dot au

Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com

Re-implemented and improved read-write locks;  
(with Louis Thomas) re-implemented and improved  
condition variables;  
enhancements to semaphores;  
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.

Thomas Pfaff tpfaff at gmx dot net

Changes to make C version usable with C++ applications;  
re-implemented mutex routines to avoid Win32 mutexes  
and TryEnterCriticalSection;  
procedure to fix Mingw32 thread-safety issues.

Franco Bez franco dot bez at gmx dot de

procedure to fix Mingw32 thread-safety issues.

Louis Thomas lthomas at arbitrade dot com

(with Alexander Terekhov) re-implemented and improved  
condition variables.

David Korn dkg at research

dot att dot com

Ported to UWIN.

Phil Frisbie, Jr. phil at hawksoft dot com

Bug fix.

Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de

Bug fix.

prionx at junodotcom prionx at junodotcom

Bug fixes.

Max Woodbury mtew at cds dot duke dot edu

POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically  
linked image sizes.

Rob Fanner rfanner at stonethree dot com

Bug fix.

Michael Johnson michaelj at maine dot rr dot com

Bug fix.

Nicolas Barry boozai at yahoo dot com

Bug fixes.

Piet van Bruggen pietvb at newbridges dot nl

Bug fix.

Makoto Kato raven at oldskool dot jp

AMD64 port.

Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr

Contributed the QueueUserAPCEx package which makes preemptive async cancelation possible.

Will Bryant will dot bryant at ecosm dot com

Borland compiler patch and makefile.

Anuj Goyal anuj dot goyal at gmail dot com

Port to Digital Mars compiler.

Gottlob Frege gottlobfrege at gmail dot com

re-implemented pthread\_once (version 2)

(pthread\_once cancellation added by rpj).

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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Author : Angus Johnson

Version : 6.1.3a

Date : 22 January 2014

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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>

<https://github.com/kkaefer/css-color-parser-cpp>

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Tim Wegner

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#

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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
#
#
EOF
```

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```

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Kenneth Russell  
Brian Salomon  
Gregg Tavares  
Jeff Timanus  
Ben Vanik  
Adrienne Walker  
thestig@chromium.org  
Justin Schuh  
Scott Graham  
Corentin Wallez  
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Homepage: <http://fontawesome.github.com/Font-Awesome/>

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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 delimiters 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
  repository: https://github.com/isaacs/node-lru-cache
  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-separated list
- \* `--packages [list]`` restrict output to the packages (package@version) in the semicolon-separated list
- \* `--excludePackages [list]`` restrict output to the packages (package@version) not in the semicolon-separated 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](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. There's 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`.

If one of the those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `\*` next to the name of the license to show that we "guessed" at it.



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# spdx-license-ids

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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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Qt port of geosimplify.js, <https://github.com/mapbox/geosimplify-js>

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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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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
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```

David Beaumont <dbeaumont@google.com>

David Yonge-Mallo <davinci@google.com>

Dong Zhou <dongzhou@google.com>

Fredrik Roubert <roubert@google.com>

Jeanine Lilleng <jeanine@google.com>

Keghani Kouzoujian <keghani@google.com>

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"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

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- (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.

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"Modified Software" shall have the meaning as set forth in Section 2.3.

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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.

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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, 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

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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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primary and substantial functionality to the Application(s);

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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.

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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.

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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

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### 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<br>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 | | |

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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 Suite | Qt Safe   Qt Manager | Qt Renderer | Qt Application   Qt Platform | Qt Gammaray   Qt Deployment 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          |     |     |     |     |   |  | 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:

"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:

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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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Authors: Loren Merritt <lorenm@u.washington.edu>  
Anton Mitrofanov <BugMaster@narod.ru>  
Jason Garrett-Glaser <darkshikari@gmail.com>  
Henrik Gramner <hengar-6@student.ltu.se>

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By: Adrian Heine

Repository: <https://github.com/adrianheine/acorn-import-meta>

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By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine

Repository: <https://github.com/acornjs/acorn.git>

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Sharygin, hemanth.hm

Repository: micromatch/braces

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By: Sindre Sorhus

Repository: sindresorhus/date-time

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By: Jon Schlinkert, Edo Rivai, Paul Miller, Rouven Weling

Repository: jonschlinkert/fill-range

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## hash.js

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By: Fedor Indutny

Repository: git@github.com:indutny/hash.js

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-----  
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By: Rich Harris  
Repository: <https://github.com/Rich-Harris/sourcemap-codec>

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By: Microsoft Corp.

Repository: <https://github.com/Microsoft/tslib.git>

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## turbocolor

License: MIT

By: Jorge Bucaran

Repository: jorgebucaran/turbocolor

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac\_dsp\_gpl.asm`
  - `libavcodec/x86/idct\_mmx.c`
  - `libavfilter/x86/vf\_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make\_sunver.pl`
  - `doc/t2h.pm`
  - `doc/txi2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/\*`
  - `tests/tiny\_ssim.c`

-

the following filters in libavfilter:

- `signature\_lookup.c`
- `vf\_blackframe.c`
- `vf\_boxblur.c`
- `vf\_colormatrix.c`
- `vf\_cover\_rect.c`
- `vf\_croptdetect.c`
- `vf\_delogo.c`
- `vf\_eq.c`
- `vf\_find\_rect.c`
- `vf\_fspp.c`
- `vf\_geq.c`
- `vf\_histeq.c`
- `vf\_hqdn3d.c`
- `vf\_kerndeint.c`
- `vf\_lensfun.c` (GPL version 3 or later)

- `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.

```
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Mocking Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.
```



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Bogdan Piloca <boo@google.com>  
Chandler Carruth <chandlerc@google.com>  
Dave MacLachlan <dmaclach@gmail.com>  
David Anderson <danderson@google.com>  
Dean Sturtevant  
Gene Volovich <gv@cite.com>  
Hal Burch <gmock@hburch.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Jim Keller <jimkeller@google.com>  
Joe Walnes <joe@truemesh.com>  
Jon Wray <jwray@google.com>  
Keir Mierle <mierle@gmail.com>  
Keith Ray <keith.ray@gmail.com>  
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Lev Makhlis  
Manuel Klimek <klimek@google.com>  
Mario Tanev <radix@google.com>  
Mark Paskin  
Markus Heule <markus.heule@gmail.com>  
Matthew Simmons <simmonmt@acm.org>  
Mike Bland <mbland@google.com>  
Neal Norwitz <nnorwitz@gmail.com>  
Nermin Ozkiranartli <nermin@google.com>  
Owen  
Carlsen <ocarlsen@google.com>  
Paneendra Ba <paneendra@google.com>  
Paul Menage <menage@google.com>  
Piotr Kaminski <piotr@google.com>  
Russ Rufer <russ@pentad.com>  
Sverre Sundsdal <sundsda@gmail.com>  
Takeshi Yoshino <tyoshino@google.com>  
Vadim Berman <vadimb@google.com>  
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Wolfgang Klier <wklier@google.com>  
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```

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reporting:

reports:

- lcov
- text
- text-summary

check:

global:

- statements: 95
- lines: 95
- branches: 90
- functions: 100

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#

# Please keep the list sorted.

Eric Veach <ericv@google.com>

Jesse Rosenstock <jmr@google.com>

Julien

Basch <julienbasch@google.com>

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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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The following individuals and institutions are among the Contributors:

- \* Aaron C. Meadows <cmake@shadowguarddev.com>
- \* Adriaan de Groot <groot@kde.org>
- \* Aleksey Avdeev <solo@altlinux.ru>
- \* Alexander Neundorf <neundorf@kde.org>
- \* Alexander Smorkalov <alexander.smorkalov@itseez.com>
- \* Alexey Sokolov <sokolov@google.com>
- \* Alex Turbov <i.zaufi@gmail.com>
- \* Andreas Pakulat <apaku@gmx.de>
- \*
- Andreas Schneider <asn@cryptomilk.org>
- \* Andr Rigland Brodtkorb <Andre.Brodtkorb@ifi.uio.no>
- \* Axel Huebl, Helmholtz-Zentrum Dresden - Rossendorf
- \* Benjamin Eikel
- \* Bjoern Ricks <bjoern.ricks@gmail.com>
- \* Brad Hards <bradh@kde.org>
- \* Christopher Harvey
- \* Christoph Grninger <foss@grueninger.de>
- \* Clement Creusot <creusot@cs.york.ac.uk>
- \* Daniel Blezek <blezek@gmail.com>
- \* Daniel Pfeifer <daniel@pfeifer-mail.de>
- \* Enrico Scholz <enrico.scholz@informatik.tu-chemnitz.de>
- \* Eran Ifrah <eran.ifrah@gmail.com>
- \* Esben Mose Hansen, Ange Optimization ApS
- \* Geoffrey Viola <geoffrey.viola@asirobots.com>
- \* Google Inc
- \* Gregor Jasny
- \* Helio Chissini de Castro <helio@kde.org>
- \* Ilya Lavrenov <ilya.lavrenov@itseez.com>
- \* Insight Software Consortium <insightsoftwareconsortium.org>
- \* Jan Woetzel
- \* Kelly Thompson <kgt@lanl.gov>
- \* Konstantin Podsvirov <konstantin@podsvirov.pro>



\* Mario Bensi <mbensi@ipsquad.net>  
\* Mathieu Malaterre <mathieu.malaterre@gmail.com>  
\* Matthaeus G. Chajdas  
\* Matthias  
Kretz <kretz@kde.org>  
\* Matthias Maennich <matthias@maennich.net>  
\* Michael Strmer  
\* Miguel A. Figueroa-Villanueva  
\* Mike Jackson  
\* Mike McQuaid <mike@mikemcquaid.com>  
\* Nicolas Bock <nicolasbock@gmail.com>  
\* Nicolas Despres <nicolas.despres@gmail.com>  
\* Nikita Krupen'ko <krnekit@gmail.com>  
\* NVIDIA Corporation <www.nvidia.com>  
\* OpenGamma Ltd. <opengamma.com>  
\* Patrick Stotko <stotko@cs.uni-bonn.de>  
\* Per yvind Karlsen <peroyvind@mandriva.org>  
\* Peter Collingbourne <peter@pcc.me.uk>  
\* Petr Gotthard <gotthard@honeywell.com>  
\* Philip Lowman <philip@yhbt.com>  
\* Philippe Proulx <pproulx@efficios.com>  
\* Raffi Enficiaud, Max Planck Society  
\* Raumfeld <raumfeld.com>  
\* Roger Leigh <rleigh@codelibre.net>  
\* Rolf Eike Beer <eike@sf-mail.de>  
\* Roman Donchenko <roman.donchenko@itseez.com>  
\* Roman Kharitonov <roman.kharitonov@itseez.com>  
\* Ruslan Baratov  
\* Sebastian Holtermann <sebholt@xwmw.org>  
\* Stephen Kelly <steveire@gmail.com>  
\* Sylvain Joubert <joubert.sy@gmail.com>  
\* Thomas Sondergaard <ts@medical-insight.com>  
\*  
Tobias Hunger <tobias.hunger@qt.io>  
\* Todd Gamblin <tgamblin@llnl.gov>  
\* Tristan Carel  
\* University of Dundee  
\* Vadim Zhukov  
\* Will Dicharry <wdicharry@stellarscience.com>

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Nicolas Capens <capn@google.com>  
Alexis Htu <sugoi@google.com>  
Shannon Woods <shannonwoods@google.com>  
Corentin Wallez <cwallez@google.com>  
Greg Hartman <ghartman@google.com>  
Ping-Hao Wu <pinghao@google.com>  
Maxime Grgoire <mgregoire@google.com>  
Veranika Liaukevich <veranika@google.com>  
John Bauman <jbauman@google.com>  
Keun Soo Yim <yim@google.com>  
John Sheu <sheu@google.com>  
Philippe Hamel <hamelphi@google.com>  
Daniel Toyama <kenjitoyama@google.com>  
Meng-Lin Wu <marleymoo@google.com>  
Krzysztof Kosiski <krzysio@google.com>  
Chris  
Forbes <chrisforbes@google.com>  
Ben Clayton <bclayton@google.com>  
Hernan Liatis <hliatis@google.com>  
Logan (Tzu-hsiang) Chien <loganchien@google.com>  
Stephen White <senorblanco@google.com>  
Raymond Chiu <chiur@google.com>

TransGaming Inc.

Nicolas Capens  
Gavriel State  
Jim MacArthur  
Daniel Koch  
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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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```
#!/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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-----

```

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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](mailto: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 * a);

(print 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  
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

-----

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).

I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

#### Legal

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I, Matt McCutchen, the sole author of the original Big Integer Library, waive my copyright to it, placing it in the public domain. The library comes with absolutely no warranty.

~~~~~

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

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

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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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## 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/f243287fbce6da33838a226ddf8c412535390d4) 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/7e83a069d23c104c3cd8257eb6466670ecca465)  
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)  
Changelog (@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/955bbf6070ffc9f0d01ef37bb84ffb6ac65e007b) 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-command-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/1cda118e1aa18cc391ba2765dcae89172943a0f) fix: replace problematic 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)
- [dfcbdf6](https://github.com/davglass/license-checker/commit/dfcbdf64966adc74e065f71e45cbd08ba8fe62ab) 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/a6ee2904eb7fced220dcfe8548f80ec74fde3a2)  
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 sgtcdck/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/fe06eae8844d050ad0f80d576a221dd605131de) Fixed replace (@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/2c80d9d2dcc59340698630144256096a91e23f22) 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/ba946dd1065e762c36b27dceccdd9bb7389ad18d4)

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/a842eca4f008c07df3039dcaacd4641d7273625)

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/ddd317a5a09344f0021812b8dee2f39bbbf07a0)

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/efe23d991cfc40dc6980fbf13461408da822b1f)  
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/dd173badc65368dc614047ffe5ae3768bf9618) 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/c7dae0fe5317a17b3aef61e8c118fadc6bb43a56) 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/0479570faf87eccc9b37fbb25afae7faaec6636)  
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/11e204c5c078eae1f165fa010da229d2a9fb4b5)  
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/b725080d2dbdfdbf0994867577d4c5e3dc0ee2a)  
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 insensitive

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/6ad6ee21813e698e7f995e98dcadafb961f6a33)

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/6f390fff60b31a07939e6d325796bdcfbefb5907)  
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 unnecessary log statement (@paulmand31)

- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3)  
Adding license checks in the LICENSE file (and variations) (@paulmand31)

- [#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)

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- [#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)

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- [#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/7b8c34f75b04a7541bf23d596bbae5447492c53)

Initial Commit (@davglass)

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## 1.305 reload4j 1.2.8

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## 1.307 biosdevname 0.6.2-1.el7

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## 1.308 pango 1.36.8-2.el7

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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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<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.77.1">
<link rel="home" href="/index.html" title="Chapter 1: Boost.TypeTraits">
<link rel="up" href="/index.html" title="Chapter 1: Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
<td align="center"><a href="/index.html">Home</a></td>
<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
</tr>
```

```

align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">More</a></td>
</tr></table>
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<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="index.html"></a><a accesskey="h"
href="index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section boost_traits_mpl">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_traits_mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements
for
an <a href="http://www.boost.org/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>: that includes a number of rather intrusive workarounds
for broken compilers.
</p>
<p>
Purely as an implementation detail, this means that <code class="computeroutput"><a class="link"
href="reference/integral_constant.html" title="integral_constant">true_type</a></code>
inherits from <a href="http://www.boost.org/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code></a>,
<code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">false_type</a></code>
inherits from <a href="http://www.boost.org/doc/refmanual/bool.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span
class="special">::</span><span class="identifier">mpl</span><span class="special">::</span><span
class="identifier">false_</span></code></a>,
and <code class="computeroutput"><a class="link" href="reference/integral_constant.html"
title="integral_constant">integral_constant</a><span class="special"></span><span
class="identifier">T</span><span class="special">,</span>
<code class="computeroutput"><span class="identifier">v</span><span class="special">></span></code>
inherits from <a href="http://www.boost.org/doc/refmanual/integral-c.html" target="_top"><code
class="computeroutput"><span class="identifier">boost</span><span class="special">::</span><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">integral_c</span><span
class="special"></span><span class="identifier">T</span><span class="special">,</span><span
class="identifier">v</span><span class="special">></span></code></a>
(provided <code class="computeroutput"><span
class="identifier">T</span></code> is not <code class="computeroutput"><span
class="keyword">bool</span></code>)
</p>
</div>

```

```

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    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe<p>
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    file LICENSE_1_0.txt or copy at <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>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a accesskey="u" href="index.html"></a><a accesskey="h" href="index.html"></a><a accesskey="n" href="examples.html"></a>
</div>
</body>
</html>
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

```

Maybe this should pass?

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
```

```
    Subject to the Boost Software License, Version 1.0.
```

```
    (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>

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</para>

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</para>

<!--hr / -->

<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>  
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</section>

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djk

-at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)



Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar\_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando

    Cacciola (fernando\_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando\_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganaue (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)

Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Herv

    Brnnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert\_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Jrv (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)

John Maddock (john - at - johnmaddock.co.uk)

John R Bandela (jbandela-at-ufl.edu)

Jonathan Turkanis (turkanis -at- coderage dot com)

Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)

Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)

Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)

Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)

Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)

Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)  
Mac Murrett (mmurrett -at- mac.com)  
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)  
Michael Glassford (glassfordm - at - hotmail.com)  
Michael Stevens (Michael.Stevens - at - epost.de)  
Multi Media Ltd. (pdimov@mmltd.net)  
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)  
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004  
15:45:33 +0100)  
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)  
Pavol Droba (droba -at- topmail.sk)  
Peter Dimov (pdimov@mmltd.net)  
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)  
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug  
2004 10:35:36 +0100)  
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)  
Robert Ramey (ramey@www.rrsd.com)  
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)  
Roland Schwarz (roland.schwarz -at- chello.at)  
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)  
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)  
Stefan Seefeld (seefeld -at- sympatico.ca)  
Stephen Cleary (sccleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)  
Steve  
Cleary (Variant of Stephen Cleary)  
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)  
The Trustees of Indiana University ()  
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)  
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)  
Thorsten Ottosen (nesotto - at - cs.auc.dk)  
Toon Knapen (toon dot knapen - at - fft.be)  
Trustees of Indiana University ()  
University of Notre Dame ()  
Vladimir Prus (ghost@cs.msu.su)  
William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)  
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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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(agg@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.)

Index: boost/mpl/print.hpp

```

=====
--- boost/mpl/print.hpp (revision 83411)
+++ boost/mpl/print.hpp (working copy)
@@ -45,22 +45,21 @@
     : mpl::identity<T>
#if defined(__MWERKS__)
    , aux::print_base
#endif
+endif
{
#if defined(BOOST_MSVC)
    enum { n = sizeof(T) + -1 };
#elif defined(__MWERKS__)
    void f(int);
#else
- enum {
-     n =
-# if defined(__EDG_VERSION__)
-     aux::dependent_unsigned<T>::value > -1
-# else

```

```

-     sizeof(T) > -1
-# endif
-   };
-#endif
+elif defined(__EDG_VERSION__)
+  enum { n = aux::dependent_unsigned<T>::value > -1 };
+elif defined(BOOST_GCC)
+  enum { n1 };
+  enum { n2 };
+  enum { n = n1 != n2 };
+#else
+  enum { n = sizeof(T) > -1 };
+#endif
};

#if defined(BOOST_MSVC)
<?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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```

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```

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//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
# pragma once
#endif

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

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_;
    operator bool() const { return bool_::value; }
};

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 B, class T = void>
struct disable_if_c : public enable_if_c<!B, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
public:
    enum { value = sizeof(dispatch(trigger())) == sizeof(true_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 <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

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;
};

template <typename T> struct unvoid { typedef T type; };
template <> struct unvoid<void> { struct type { }; };
template <> struct unvoid<const void> { struct type { }; };

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on
Wed, 17 July 2002, 19:27:00 +0400.
```

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```
/+\
+\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.
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//

// See <http://www.boost.org/libs/interprocess> for documentation.

```

//
//

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if (defined _MSC_VER) && (_MSC_VER >= 1200)
# 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 <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_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 <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
    typedef T type;
    const T& operator()(const T& x) const
    { return x; }
};

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
[/
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http://www.boost.org/LICENSE_1_0.txt).
]
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga 2006-2012
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#include <boost/intrusive/detail/config_begin.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

typedef char one;
struct two {one _[2];};

template< bool C_ >
struct bool_
{
    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 F, class Param>
struct apply
{
    typedef typename F::template apply<Param>::type type;
};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static const T &trigger();
public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_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 C
    , typename T1
    , typename T2
    >
struct if_
{
    typedef typename if_c<0 != C::value, T1, T2>::type type;
};

```

```

template<
    bool C
    , typename F1
    , typename F2
    >
struct
eval_if_c
    : if_c<C,F1,F2>::type
{};

```

```

template<
    typename C
    , typename T1
    , typename T2
    >
struct eval_if
    : if_c<C,T1,T2>::type
{};

```

// identity is an extension: it is not part of the standard.

```

template <class T>
struct identity
{
    typedef T type;
};

```

```

#if defined(BOOST_MSVC) || defined(__BORLANDC_)
#define BOOST_INTRUSIVE_TT_DECL __cdecl
#else
#define BOOST_INTRUSIVE_TT_DECL
#endif

```

```

#if defined(_MSC_EXTENSIONS) && !defined(__BORLANDC__) && !defined(_WIN64) &&

```

```

!defined(UNDER_CE)
#define BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS
#endif

template <typename T>
struct is_unary_or_binary_function_impl
{ static const bool value = false; };

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (*)(>
{ static
const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R>
struct is_unary_or_binary_function_impl<R (__stdcall*)(>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R>
struct is_unary_or_binary_function_impl<R (__fastcall*)(>
{ static const bool value = true; };

#endif

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(>
{ static const bool value = true; };

template <typename R>
struct is_unary_or_binary_function_impl<R (__cdecl*)(>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

```

```

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (*)(T0...)>
{ static const bool value = true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template
<typename R, class T0>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0)>
{ static const bool value = true; };

#endif

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0)>
{ static const bool value = true; };

template <typename R, class T0>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0...)>
{ static const bool value = true; };

#endif

// see boost ticket #4094
// avoid duplicate definitions of is_unary_or_binary_function_impl
#ifndef BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (*)(T0, T1...)>
{ static const bool value
= true; };

#else // BOOST_INTRUSIVE_TT_TEST_MSC_FUNC_SIGS

```

```

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__stdcall*)(T0, T1)>
{ static const bool value = true; };

#ifndef _MANAGED

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__fastcall*)(T0, T1)>
{ static const bool value = true; };

#endif

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1)>
{ static const bool value = true; };

template <typename R, class T0, class T1>
struct is_unary_or_binary_function_impl<R (__cdecl*)(T0, T1...)>
{ static const bool value = true; };
#endif

template <typename T>
struct is_unary_or_binary_function_impl<T&>
{ static const bool value = false; };

template<typename T>
struct is_unary_or_binary_function
{ static const bool value = is_unary_or_binary_function_impl<T>::value; };

//boost::alignment_of yields to 10K lines of preprocessed code, so we
//need an alternative
template
<typename T> struct alignment_of;

template <typename T>
struct alignment_of_hack
{
    char c;
    T t;
    alignment_of_hack();
};

template <unsigned A, unsigned S>
struct alignment_logic
{
    static const std::size_t value = A < S ? A : S;
};

```

```

template< typename T >
struct alignment_of
{
    static const std::size_t value = alignment_logic
        < sizeof(alignment_of_hack<T>) - sizeof(T)
        , sizeof(T)
        >::value;
};

template <typename T, typename U>
struct is_same
{
    typedef char yes_type;
    struct no_type
    {
        char padding[8];
    };

    template <typename V>
    static yes_type is_same_tester(V*, V*);
    static no_type is_same_tester(...);

    static T *t;
    static U *u;

    static const bool value = sizeof(yes_type) == sizeof(is_same_tester(t,u));
};

template<typename T>
struct add_const
{ typedef const T type; };

template<typename T>
struct remove_const
{ typedef T type; };

template<typename T>
struct remove_const<const
T>
{ typedef T type; };

template<typename T>
struct remove_cv
{ typedef T type; };

template<typename T>
struct remove_cv<const T>

```

```

{ typedef T type; };

template<typename T>
struct remove_cv<const volatile T>
{ typedef T type; };

template<typename T>
struct remove_cv<volatile T>
{ typedef T type; };

template<class T>
struct remove_reference
{
    typedef T type;
};

template<class T>
struct remove_reference<T&>
{
    typedef T type;
};

template<class Class>
class is_empty_class
{
    template <typename T>
    struct empty_helper_t1 : public T
    {
        empty_helper_t1();
        int i[256];
    };

    struct empty_helper_t2
    { int i[256]; };

    public:
    static const bool value = sizeof(empty_helper_t1<Class>) == sizeof(empty_helper_t2);
};

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;
};

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
[/
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http://www.boost.org/LICENSE_1_0.txt).
]

[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]: that includes a number of
rather intrusive
workarounds for broken compilers.

Purely as an implementation detail, this
means that __true_type` inherits from [@../../../../libs/mpl/doc/refmanual/bool.html boost::mpl::true_`],
__false_type` inherits
from [@../../../../libs/mpl/doc/refmanual/bool.html boost::mpl::false_`], and __integral_constant<T, v>` inherits
from
[@../../../../libs/mpl/doc/refmanual/integral-c.html boost::mpl::integral_c<T,v>`] (provided T` is not bool`)

[endsect]
/*
*
* Copyright (c) 2003 Dr John Maddock
* Use, modification and distribution is subject to the

```

```
* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/
```

```
#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);
}

}
[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

```



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=====]

# 1.317 pciutils 3.5.1-2.el7

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## 1.320 json-java 2.4-jdk15

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```
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* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/filters/CompositePropertyFilter.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/processors/JsonVerifier.java
*
```

/opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/util/CycleDetectionStrategy.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/JSONTokener.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/util/JsonEventListener.java  
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 jar/net/sf/json/util/WebHijackPreventionStrategy.java  
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 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/filters/MappingPropertyFilter.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/filters/TruePropertyFilter.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/util/NewBeanInstanceStrategy.java  
 \*  
 /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/DefaultValueProcessor.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/DefaultDefaultValueProcessor.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/PropertyNameProcessorMatcher.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/filters/AndPropertyFilter.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/filters/OrPropertyFilter.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/util/PropertySetStrategy.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONObject.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/regexp/Perl5RegexMatcher.java  
 \*  
 /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/DefaultValueProcessorMatcher.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONFunction.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/JsDateJsonBeanProcessor.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/JSONStringer.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/JsonValueProcessor.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/util/JavaIdentifierTransformer.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/test/JSONAssert.java  
 \* /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/processors/JsonBeanProcessorMatcher.java  
 \*  
 /opt/cola/permits/1600757593\_1679117623.329001/0/json-lib-2-4-sources-  
 jar/net/sf/json/groovy/JsonGroovyBuilder.java

```

* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/xml/JSONTypes.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONArray.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/processors/PropertyNameProcessor.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSON.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/AbstractJSON.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONSerializer.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/filters/NotPropertyFilter.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/PropertyFilter.java
*
/opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/xml/XMLSerializer.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsonValueProcessorMatcher.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/JSONUtils.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/filters/FalsePropertyFilter.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/regexp/RegexpMatcher.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JsonConfig.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsDateJsonValueProcessor.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/regexp/RegexpUtils.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONNull.java
*
/opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/regexp/JdkRegexpMatcher.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/EnumMorpher.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/util/PropertyExclusionClassMatcher.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-
jar/net/sf/json/processors/JsonBeanProcessor.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/util/JSONBuilder.java
* /opt/cola/permits/1600757593_1679117623.329001/0/json-lib-2-4-sources-jar/net/sf/json/JSONString.java

```

## 1.321 pjnath 1.8.1

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\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_samples.h  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_turn.h  
\*  
/opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_stun.h  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_ice.h  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_mainpage.h  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/docs/doc\_nat.h

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Found in path(s):

\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/turn\_sock.c  
\*  
/opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/allocation.c  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/stun\_sock\_test.c  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/ice\_session.c  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun\_msg\_dump.c  
\* /opt/cola/permits/1606729853\_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/auth.c

```

* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/ice_test.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/errno.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/nat_detect.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/turn_session.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/main.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/turn_sock.h
*
/opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/server.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/nat_detect.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/server.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/main.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_config.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/test.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun_transaction.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/test.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_sock.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/ice_session.h
*
/opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/turn.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-srv/listener_tcp.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/types.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_msg.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/sess_auth.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/ice_strans.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath.h
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* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun_sock.c
*
/opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjturn-client/client_main.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_auth.h
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/server.h
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* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/include/pjnath/stun_session.h
*
/opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/stun.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath-test/turn_sock_test.c
* /opt/cola/permits/1606729853_1681993835.6041217/0/pjnath-zip/pjnath/src/pjnath/stun_auth.c

```

# 1.322 also 1.0.13

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## 1.324 python-lxml 3.2.1-4.el7

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## 1.325 pjsip 1.8.10

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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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```
>>>>>
```

```
/*
```

```
* PortAudio Portable Real-Time Audio Library
```

```
* PortAudio API Header File
```

```
* Latest version available at: http://www.portaudio.com
```

```
*
```

```
* Copyright (c) 1999-2006 Ross Bencina and Phil Burk
```

```
*
```

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<<<<<<

Implementation files to contain:

>>>>>

/\*

\* PortAudio Portable Real-Time Audio Library

\* Latest version at: <http://www.portaudio.com>

\* <platform> Implementation

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K 14

svn:executable

V 1

\*

END

# 1.327 util-linux 2011.09

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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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## 1.329 libnss-nisplus 2.13

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## 1.330 pcre 7.0

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### THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

University of Cambridge Computing Service,  
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Contributors

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Original Author: [Dave Gamble](<https://github.com/DaveGamble>)

Current Maintainer: [Max Bruckner](<https://github.com/FSMaxB>)

- \* [Ajay Bhargav](<https://github.com/ajaybhargav>)
- \* [Alper Akcan](<https://github.com/alperakcan>)
- \* [Anton Sergeev](<https://github.com/anton-sergeev>)
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- \* [Casperinous](<https://github.com/Casperinous>)
- \* [Debora Grosse](<https://github.com/DeboraG>)
- \* [dieyushi](<https://github.com/dieyushi>)
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- \* Eswar Yaganti
- \* [Evan Todd](<https://github.com/etodd>)
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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

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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.

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

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

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

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

compelled to copy the source along with the object code.

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

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

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

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

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

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

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

directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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<one line to give the library's name and a brief idea of what it does.>

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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 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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(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 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.)

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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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