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@c ispell-local-pdict: "ispell-dict"  
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#### Mersenne Twister

-----

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

-----

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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## MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services  
-----

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UUencode and UUdecode functions

-----

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

#### XML Remote Procedure Calls

-----

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test\_epoll

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-----

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strtod and dtoa

-----

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.4, March 14th, 2010

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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

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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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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

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

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

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

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

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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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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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.

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modules/audio\_coding/codecs/g711/main/source/g711.h  
modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
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-----  
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/\*

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\* 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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```
/*
 * 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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 * detriment.
 */
```

-----  
Files:

modules/audio\_coding/codecs/g722/main/source/g722\_decode.c  
modules/audio\_coding/codecs/g722/main/source/g722\_enc\_dec.h  
modules/audio\_coding/codecs/g722/main/source/g722\_encode.c

License:

```
/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
 * Written by Steve Underwood <steveu@coppice.org>
 *
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 *
 * Based in part on a single channel G.722 codec which is:
 *
 * Copyright (c) CMU 1993
 * Computer Science, Speech Group
 * Chengxiang Lu and Alex Hauptmann
 */
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Files:

modules/audio\_coding/codecs/isac/main/source/fft.c

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\*/

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modules/audio\_device/mac/portaudio/pa\_memorybarrier.h

modules/audio\_device/mac/portaudio/pa\_ringbuffer.c

modules/audio\_device/mac/portaudio/pa\_ringbuffer.h

License:

/\*

\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

\*

\* This program uses the PortAudio Portable Audio Library.

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*/

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

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Files:

system\_wrappers/source/set\_thread\_name\_win.h

Source:

<http://msdn.microsoft.com/en-us/cc300389.aspx#P>

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CVC's SMT-LIB Parser

\file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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Windows msc99hdr

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```
/*  
* PROGRAM NAME: STP (Simple Theorem Prover)  
*  
* AUTHORS: Vijay Ganesh  
*  
* BEGIN DATE: November, 2005  
***/
```

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\file smtlib.y

Author: Sergey Berezin, Clark Barrett

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

\*/

Dr. Memory: the memory debugger

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.4, March 14th, 2010

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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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Mathieu Monnier (SSE4 instruction patches, NASM preprocessor additions)

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Stephen Polkowski (x86 instruction patches)

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February 2002

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* with testing, bug fixes, and patience. This wouldn't have been
* possible without all of you.
*
* Thanks to Frank J. T. Wojcik for helping with the documentation.
*/

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

```

```

* but this is not under our control. The libpng documentation has always
* stated that it works with 4-digit years, and the APIs have been
* documented as such.
*
* The tIME chunk itself is also Y2K compliant. It uses a 2-byte unsigned
* integer to hold the year, and can hold years as large as 65535.
*
* zlib, upon which libpng depends, is also Y2K compliant. It contains
* no date-related code.
*
* Glenn Randers-Pehrson
* libpng maintainer
* PNG Development Group
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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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## \*-makefile\*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, \*BSD)

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## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D\_REENTRANT

LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD\_RPATH=

LD\_RPATH\_PRE= -Wl,-rpath,

## Compiler switch to embed a library name

LD\_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE\_SO\_TARGET))

## Shared library options

LD\_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC\_O = ao

## Compilation rules

%. \$(STATIC\_O): \$(srcdir)/%.c

\$(COMPILE.c) \$(STATICCPPFLAGS) \$(STATICCFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.c

\$(COMPILE.c) \$(DYNAMICCPPFLAGS) \$(DYNAMICCFLAGS) -o \$@ \$<

%. \$(STATIC\_O): \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(STATICCPPFLAGS) \$(STATICCXXFLAGS) -o \$@ \$<

%.o: \$(srcdir)/%.cpp

\$(COMPILE.cc) \$(DYNAMICCPPFLAGS) \$(DYNAMICCXXFLAGS) -o \$@ \$<

## Dependency rules

```

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

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

## Versioned libraries rules

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

## Bind internal references

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

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

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

## End BSD-specific setup
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```

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- libpostproc
- optional x86 optimizations in the files
  - ``libavcodec/x86/flac_dsp_gpl.asm``
  - ``libavcodec/x86/idct_mmx.c``
- libutvideo encoding/decoding wrappers in ``libavcodec/libutvideo*.cpp``
- the X11 grabber in ``libavdevice/x11grab.c``
- the swresample test app in ``libswresample/swresample-test.c``
- the ``texi2pod.pl`` tool
- the following filters in libavfilter:
  - ``f_ebur128.c``
  - ``vf_blackframe.c``
  - ``vf_boxblur.c``
  - ``vf_colormatrix.c``
  - ``vf_cover_rect.c``
  - ``vf_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\_interlace.c`
- `vf\_kerndeint.c`
- `vf\_mcdeint.c`
- `vf\_mpdecimate.c`
- `vf\_owdenoise.c`
- `vf\_perspective.c`
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- `vf\_sab.c`
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- `vf\_spp.c`
- `vf\_stereo3d.c`
- `vf\_super2xsai.c`
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- `vf\_uspp.c`
- `vsrc\_mptestsrc.c`

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external libraries

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compatible libraries

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The following libraries are under GPL:

- frei0r
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- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

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incompatible libraries

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VP8 ARMv6 optimisations

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2006-Jan-27

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(pthread\_once cancellation added by rpj).

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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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```

```

; This is a header file for the x264ASM assembly language, which uses
; NASM/YASM syntax combined with a large number of macros to provide easy
; abstraction between different calling conventions (x86_32, win64, linux64).
; It also has various other useful features to simplify writing the kind of
; DSP functions that are most often used in x264.

```

```

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```

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November 12, 2015

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\* Small optimizations to Python serialization.

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\* Fix compiler to not make output executable.

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\* Added @Override annotation to generated Java code where appropriate.

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\* Detect unordered\_map in stl\_hash.m4.

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\* 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().

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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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/* * 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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#
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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/ftandom/ftandom.c
#
# EOF
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## STACK-LESS JUST-IN-TIME COMPILER

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## THE C++ WRAPPER FUNCTIONS

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Version 3, 29 June 2007

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The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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Included here to compliment the Pthreads-win32 license header in wtf/ThreadingWin.cpp file. WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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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 wisconsin 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](mailto:tpfaff@gmx.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](mailto:franco.bez@gmx.de)  
procedure to fix Mingw32 thread-safety issues.

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

David Korn [dgk at research dot att dot com](mailto:dgk@research.att.com)  
Ported to UWIN.

Phil Frisbie, Jr. [phil at hawksoft dot com](mailto:phil@hawksoft.com)  
Bug fix.

Ralf Brese [Ralf dot Brese at pdb4 dot siemens dot de](mailto:Ralf.Brese@pdb4.siemens.de)  
Bug fix.

[prionx at jun0 dot com](mailto:prionx@juno.com) [prionx at jun0 dot com](mailto:prionx@juno.com)  
Bug fixes.

Max Woodbury [mtew at cds dot duke dot edu](mailto:mtew@cds.duke.edu)  
POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically  
linked image sizes.

Rob Fanner [rfanner at stonethree dot com](mailto:rfanner@stonethree.com)  
Bug fix.

Michael Johnson [michaelj at maine dot rr dot com](mailto:michaelj@maine.rr.com)  
Bug fix.

Nicolas Barry [boozai at yahoo dot com](mailto:boozai@yahoo.com)  
Bug fixes.

Piet van Bruggen [pietvb at newbridges dot nl](mailto:pietvb@newbridges.nl)  
Bug fix.

Makoto Kato [raven at oldskool dot jp](mailto:raven@oldskool.jp)  
AMD64 port.

Panagiotis E. Hadjidoukas [peh at hplab dot ceid dot upatras dot gr](mailto:peh@hplab.ceid.upatras.gr)  
Contributed the QueueUserAPCEx package which  
makes preemptive async cancelation possible.

Will Bryant [will dot bryant at ecosm dot com](mailto:will@ecosm.com)  
Borland compiler patch and makefile.

Anuj Goyal [anuj dot goyal at gmail dot com](mailto:anuj.goyal@gmail.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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```
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```

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

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#

```
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```

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Version 2.1, February 1999

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```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# 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
#
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/ftandom/ftandom.c
#
# EOF
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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
December 3, 2015

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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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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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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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 <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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these parts are used by default, you have to explicitly pass --enable-gpl to  
configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- libmpcodecs
- optional x86 optimizations in the files
  - libavcodec/x86/flac\_dsp\_gpl.asm
  - libavcodec/x86/idct\_mmx.c
- libutvideo encoding/decoding wrappers in
  - libavcodec/libutvideo\*.cpp
- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in
  - libswresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f\_ebur128.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_cropdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_interlace.c
  - vf\_kerndeint.c
  - vf\_mcdeint.c
  - vf\_mp.c
  - vf\_owdenoise.c
  - vf\_perspective.c
  - vf\_phase.c
  - vf\_pp.c
  - vf\_pullup.c
  - vf\_sab.c
  - vf\_smartblur.c
  - vf\_spp.c
  - vf\_stereo3d.c
  - vf\_super2xsai.c
  - vf\_tinterlace.c
  - vsrc\_mptestsrc.c

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

\* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and

libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

#### external libraries

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

#### compatible libraries

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The following libraries are under GPL:

- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

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

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

#### incompatible libraries

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The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

If you wish to enable these libraries, pass `--enable-nonfree` to configure.

But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

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Version 3, 29 June 2007

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```

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```
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Version 3, 29 June 2007

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set noparent

phajdan.jr@chromium.org

thestig@chromium.org

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#

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# Copyright IBM; MIT license. This third-party code is taken from ICU, the

# license for which we already pick up from third\_party/icu/.

base/i18n/icu\_string\_conversions.cc

# Contains '(c)' in comments

base/logging.h

# Copyright Ron Rivest, public domain.

base/md5.cc

# Copyright Apple Inc; BSD license. Moved from third\_party/WebKit/.

cc/input/scroll\_elasticity\_helper.h

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chrome/browser/importer/firefox\_profile\_lock.cc

```
# Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2
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chrome/browser/importer/firefox_profile_lock.h
# Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2
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chrome/browser/importer/firefox_profile_lock_posix.cc
# Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2
# license. Not used on Android.
chrome/browser/importer/firefox_profile_lock_win.cc
# String 'copyright' used in code.
chrome/common/importer/firefox_importer_utils.cc
# Copyright Netscape Communications Corporation; MPL, GPL v2 or LGPL v2
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chrome/utility/importer/nss_decryptor.cc
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chrome/utility/importer/nss_decryptor_system_nss.cc
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chrome/utility/importer/nss_decryptor_win.h
# Copyright Google Inc; BSD license. Test code only.
chrome/tools/test/generate_mime_tests.pl
# String 'copyright' used in the text presented to the user as part of
# Google Chrome terms of service.
components/resources/terms/chromeos/terms_en.html
components/resources/terms/terms_am.html
components/resources/terms/terms_ca.html
components/resources/terms/terms_cs.html
components/resources/terms/terms_da.html
components/resources/terms/terms_de.html
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components/resources/terms/terms_kn.html
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components/resources/terms/terms\_ko.html  
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# third\_party/libvpx. Not used on Android.  
media/filters/vp8\_bool\_decoder.h  
media/filters/vp8\_bool\_decoder.cc  
# Native client not used in Android. Contains the word "Copyright"  
native\_client\_sdk/doc\_generated/rest-devsite-examples.html  
# String '(c)' used in certificates organization names  
net/cert/x509\_certificate\_known\_roots\_win.h

```
net/quic/crypto/common_cert_set_2a.inc
net/quic/crypto/common_cert_set_2b.inc
net/quic/crypto/common_cert_set_3a.inc
net/quic/crypto/common_cert_set_3b.inc
# String '(c)' used in certificates organization names
net/test/test_certificate_data.h
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# code is taken from Mozilla, the license for which we already pick up from
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net/http/md4.h
# Netscape Communications Corporation; MPL, GPL v2 or LGPL v2 license. This
# third-party code is taken from Mozilla, the license for which we already pick
# up from third_party/npapi/.
net/proxy/proxy_resolver_script.h
# Contains the word 'Copyright' in comments
ppapi/generators/idl_c_proto.py
ppapi/generators/idl_outfile.py
# Copyright (c) 2007-2009 The Khronos Group Inc. Not used on Android
ppapi/lib/gl/include/EGL/egl.h
ppapi/lib/gl/include/EGL/eglext.h
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```

```
# up from webkit/.
ui/events/keycodes/keyboard_codes_posix.h
# String 'copyright' used in code.
ui/file_manager/file_manager/foreground/js/main_scripts.js
# String 'copyright' used in code.
ui/file_manager/gallery/js/gallery_scripts.js
# String 'copyright' used in code.
ui/file_manager/video_player/js/video_player_scripts.js
# This third-party code is taken from Mozilla, but is copyright Google and has
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ui/gfx/codec/jpeg_codec.cc
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ui/gfx/codec/png_codec.cc
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content/browser/appcache/appcache_manifest_parser.cc
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# code is taken from WebKit, the license for which we already pick up from
# webkit/.
content/browser/appcache/appcache_manifest_parser.h
# String 'copyright' used in code.
ui/webui/resources/js/cr/ui/array_data_model.js
# Copyright The Chromium Authors and Apple Inc; BSD license. This third-party
# code is taken from WebKit, the license for which we already pick up from
# webkit/.
components/test_runner/helper/layout_test_helper_mac.mm
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modules/audio\_processing/aec/aec\_rdft.c  
system\_wrappers/source/condition\_variable\_event\_win.cc  
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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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modules/audio\_coding/codecs/g711/main/source/g711.c  
modules/audio\_coding/codecs/g711/main/source/g711.h

License:

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\* SpanDSP - a series of DSP components for telephony

\*

\* g711.h - In line A-law and u-law conversion routines

\*

\* Written by Steve Underwood <steveu@coppice.org>

\*

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\*  
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modules/audio\_device/mac/portaudio/pa\_ringbuffer.c  
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License:

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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.

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/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
*
* Note that this is safe only for a single-thread reader and a
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\* MODP\_B64 - High performance base64 encoder/decoder

\* Version 1.3 -- 17-Mar-2006

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Dr. Memory: the memory debugger

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Stanislav Karchebny (options parser)

Mathieu Monnier (SSE4 instruction patches, NASM preprocessor additions)

Anonymous "NASM64" developer (NASM preprocessor fixes)

Stephen Polkowski (x86 instruction patches)

Henryk Richter (Mach-O object format)

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

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

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//

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

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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#
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## \*-makefile\*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, \*BSD)

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## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

```

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

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

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

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

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

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

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

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

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

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

```

```

## Versioned libraries rules

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

## Bind internal references

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

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

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

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=====

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compatible libraries

-----

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- librubberband
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs

- libxvid

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-----

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- o [freetype-devel@nongnu.org](mailto:freetype-devel@nongnu.org)

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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);

(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 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.

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`cssmin.py` - A Python port of the YUI CSS compressor.

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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

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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.

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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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```
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// found in the LICENSE file.
```

```
module blink.mojom;
```

```
import "third_party/WebKit/public/platform/modules/permissions/permission_status.mojom";
```

```
enum PermissionName {  
    GEOLOCATION,  
    NOTIFICATIONS,  
    PUSH_NOTIFICATIONS,  
    MIDI,  
    MIDI_SYSEX,  
    PROTECTED_MEDIA_IDENTIFIER,  
    DURABLE_STORAGE,  
    AUDIO_CAPTURE,
```

```

VIDEO_CAPTURE,
BACKGROUND_SYNC,
};

// The Permission service provides permission handling capabilities by exposing
// methods to check, request, and revoke permissions. It also allows a client to
// start listening to permission changes.
interface PermissionService {
    HasPermission(PermissionName permission, string origin)
        => (PermissionStatus status);
    RequestPermission(PermissionName permission, string origin, bool user_gesture)
        => (PermissionStatus status);
    RequestPermissions(array<PermissionName> permission, string origin,
        bool user_gesture)
        => (array<PermissionStatus> statuses);
    RevokePermission(PermissionName permission, string origin)
        => (PermissionStatus status);

    // Runs the callback next time there is a permission status change for the
    // given { permission, origin }. Callers of this method will have to call it
    // again if they want to keep listening to the changes. To prevent race
    // conditions, the caller must pass the last known value.
    GetNextPermissionChange(PermissionName permission,
        string origin,
        PermissionStatus last_known_status)
        => (PermissionStatus status);
};
Copyright (C) 2014 by Marijn Haverbeke <marijnh@gmail.com> and others

```

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

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

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(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.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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enhancements to mutexes;

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procedure to fix Mingw32 thread-safety issues.

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implementation of MCS (Mellor-Crummey/Scott) locks.

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; It also has various other useful features to simplify writing the kind of  
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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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```
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\* Detect unordered\_map in stl\_hash.m4.  
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\* gzip/zlib I/O support.

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\* 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.

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\* Small patch improving performance of in Python serialization.

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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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().

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\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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\* Fixed detection of sched\_yield on Solaris.

\* Added atomicops for Solaris

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\* Fixed minor IBM xLC compiler build issues

\* Added atomicops for AIX (POWER)

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```
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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/ftandom/ftandom.c
#
# EOF
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\* (the home page for ispell)

\*

\* An almost complete rewrite of MySpell for use by

\* the Mozilla project has been developed by David Einstein  
 \* (Deinst@world.std.com). David and I are now  
 \* working on parallel development tracks to help  
 \* our respective projects (Mozilla and OpenOffice.org  
 \* and we will maintain full affix file and dictionary  
 \* file compatibility and work on merging our versions  
 \* of MySpell back into a single tree. David has been  
 \* a significant help in improving MySpell.  
 \*  
 \* Special thanks also go to La'szlo' Ne'meth  
 \* <nemethl@gyorsposta.hu> who is the author of the  
 \* Hungarian dictionary and who developed and contributed  
 \* the code to support compound words in MySpell  
 \* and fixed numerous problems with the encoding  
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```
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#include "config.h"
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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>

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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Version 3, 29 June 2007

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

THE BASIC LIBRARY FUNCTIONS

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'zlib' general purpose compression library  
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```
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Version 3, 29 June 2007

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