

# HP Lean Functional Testing

for the Microsoft Windows operating system

Software Version: 12.51

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# Contents

Contents .....	4
Open Source Licenses .....	11
HP Unified Functional Testing Open Source Licenses .....	11
Apache Commons .....	11
Augeas – Finite Automata.....	16
Autobahn – Python .....	30
AvalonDock.....	35
Axis 1.3 .....	35
Boost C++ Libraries .....	41
Castle Windsor .....	41
Chromium.....	45
David M. Gay's floating point routines.....	46
dynamic annotations.....	46
Netscape Portable Runtime (NSPR).....	47
Paul Hsieh's SuperFastHash .....	48
google-glog's symbolization library .....	48
Valgrind .....	49
xdg-mime .....	49
xdg-user-dirs.....	52
Breakpad, An open-source multi-platform crash reporting system.....	53
Libcxx.....	54
Libcxxabi.....	56
BSDiff.....	57
XZ Utils.....	57
Google code support upload script.....	57
ChromeVox .....	61
mock4js .....	61
Mozilla Personal Security Manager.....	62
Network Security Services (NSS).....	62
PLY (Python Lex-Yacc) .....	63
native client .....	63
fancy_urllib.....	64
newlib-extras .....	65
pthreads-win32.....	73
open-vcdiff.....	76
WebKit .....	79
Accessibility Audit library, from Accessibility Developer Tools.....	96
Android Crazy Linker .....	99
etc1 .....	100
Almost Native Graphics Layer Engine.....	100

Darwin .....	101
Apple sample code .....	107
Android .....	108
Binary-, RedBlack- and AVL-Trees in Python and Cython.....	111
Boringssl .....	112
Brotli .....	114
Bspatch .....	115
Google Cache Invalidation API .....	117
Checkstyle is a development tool to help programmers write Java code that .....	120
Compact Language Detection.....	129
Compact Language Detection 2.....	129
Closure compiler.....	133
Codesighs .....	136
Colorama.....	146
d3.....	146
Blackmagic DeckLink SDK – Mac .....	147
Devscripts .....	147
dom-distiller-js.....	153
Expat XML Parser .....	156
Ffmpeg .....	157
fips181.....	158
Flac.....	159
Flot Javascript/JQuery library for creating graphs.....	160
Google Input Tools .....	160
Google Toolbox for Mac .....	163
GIMP Toolkit.....	163
harfbuzz-ng.....	172
Hunspell.....	172
hunspell dictionaries.....	173
Hardware Composer Plus.....	173
IAccessible2 COM interfaces for accessibility .....	173
Iccjpeg .....	174
Icu.....	175
ISimpleDOM COM interfaces for accessibility .....	182
Jsoncpp .....	182
google-jstemplate.....	183
Khronos header files .....	187
launchpad-translations.....	188
LCOV - the LTP GCOV extension.....	188
LevelDB: A Fast Persistent Key-Value Store.....	194
NVidia Control X Extension Library .....	194
The library to input, validate, and display addresses. ....	195
Libcxx.....	198
Libcxxabi.....	200
Libevent .....	201

Libexif .....	201
Libjingle .....	210
Libjpeg .....	210
libjpeg-turbo .....	212
Braille Translation Library .....	212
International Phone Number Library .....	213
Libpng .....	213
Libsrtp .....	215
Libudev .....	216
Libusb .....	224
Libva .....	232
Libvpx .....	233
WebP image encoder/decoder .....	233
Libxml .....	234
Libxslt .....	235
Libyuv .....	236
LZMA SDK .....	236
mach_override .....	236
mach_override .....	237
markdown, a text-to-HTML conversion tool for web writers .....	238
Mesa .....	238
modp base64 decoder .....	247
NSBezierPath additions from Sean Patrick O'Brien .....	247
Mozc Japanese Input Method Editor .....	248
Cocoa extension code from Camino .....	248
mt19937ar .....	249
Netscape Plugin Application Programming Interface (NPAPI) .....	250
Ocmock .....	250
Omaha (Google Update) .....	251
OpenMAX DL .....	254
Opus .....	255
OTS (OpenType Sanitizer) .....	256
PDFium .....	256
PLY (Python Lex-Yacc) .....	257
Polymer .....	257
powergadget_lib .....	258
Protocol Buffers .....	258
py_trace_event .....	259
Coverage .....	259
Python FTP server library .....	262
Mock .....	262
Quick Color Management System .....	263
re2 - an efficient, principled regular expression library .....	263
readability .....	263
google-safe-browsing .....	264

Sfntly .....	264
Simplejson .....	267
Skia .....	268
SMHasher .....	268
Snappy: A fast compressor/decompressor .....	269
Speech Dispatcher .....	269
Speex .....	283
Sqlite .....	284
STP Constraint Solver .....	284
Sudden Motion Sensor library .....	290
SwiftShader software renderer .....	291
Simplified Wrapper and Interface Generator (SWIG) .....	291
Talloc .....	293
Tcmalloc .....	293
Tlsite .....	294
The USB ID Repository .....	295
Ursctp .....	295
v4l-utils .....	296
Webdriver .....	304
WebRTC .....	304
Webtreemap .....	305
SHA1 for Windows toolchain that is built from external sources .....	308
Wtl .....	309
x86inc .....	310
Yasm .....	311
Zlib .....	312
jqTree .....	312
pySerial .....	316
url_parse .....	317
V8 JavaScript Engine .....	318
Strongtalk .....	319
CodeProject – CSplitterControl .....	320
Dapper-dot-net .....	320
Difference Algorithm for C# .....	324
DotNetZip .....	324
Flex SDK .....	325
IKVM.NET .....	326
JavaBeans Activation Framework .....	326
JavaMail .....	333
JavaScript-XPath .....	339
Javax.Jms .....	340
JAX-RPC .....	344
JQTreeTable .....	357
jQuery .....	357
jQuery Plugin - Simulate .....	358
Json.net .....	358

Jsoncpp .....	359
LibPcap .....	360
Linq2Xsd.....	360
Log4j .....	362
Log4javascript .....	365
Log4Net .....	369
LumiSoft Mime.....	372
MooTools .....	372
MS Xml Diff and Patch .....	373
OpenMCDF.....	373
OpenSSL.....	382
PcapDotNet.....	382
Qt.....	383
SAAJ .....	392
SharpDevelop.....	405
SharpSvN .....	413
Sizzle CSS Selector Engine .....	414
SuperWebSocket.....	416
SQLite.....	418
System.Data.SQLite .....	419
TSWizard .....	419
Visual SQL Query Designer .....	419
WebSocket4Net.....	420
X2j.....	423
Xeger .....	424
Xerces-C .....	427
XSockets.NET.....	429
BSD License.....	429
MIT-License.....	429
Zlib .....	431
<b>HP Lean Functional Testing Open Source Licenses .....</b>	<b>432</b>
Angular-UI-Tree .....	432
Tyrus.....	432
Moment.....	443
WebSocket4Net.....	443
GSON .....	446
Reflections .....	447
JNA .....	447
Angular-Hot-Keys .....	448
Angular-UI-Bootstrap.....	448
Angular-UI-Sortable .....	449
AngularJS .....	450
BootStrap.....	459
JQuery-UI .....	460
JSON .....	466
Velocity .....	469



Third-Party Licenses .....	472
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Version 2.1, February 1999



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## Google code support upload script

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## PLY (Python Lex-Yacc)

PLY (Python Lex-Yacc)

Version 3.4

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## newlib-extras

README for newlib-2.0.0 release  
(mostly cribbed from the README in the gdb-4.13 release)

This is 'newlib', a simple ANSI C library, math library, and collection of board support packages.

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Unpacking and Installation -- quick overview  
=====

When you unpack the newlib-2.0.0.tar.gz file, you'll find a directory called 'newlib-2.0.0', which contains:

COPYING	config/	install-sh*	mpw-configure
COPYING.LIB	config-ml.in	libgloss/	mpw-install
COPYING.NEWLIB	config.guess*	mkinstalldirs*	newlib/
CYGNUS	config.sub*	move-if-change*	symlink-tree*
ChangeLog	configure*	mpw-README	texinfo/
Makefile.in	configure.in	mpw-build.in	
README	etc/	mpw-config.in	

To build NEWLIB, you must follow the instructions in the section entitled "Compiling NEWLIB".

This will configure and build all the libraries and crt0 (if one exists). If 'configure' can't determine your host system type, specify one as its argument, e.g., sun4 or sun4sol2. NEWLIB is most often used in cross environments.

NOTE THAT YOU MUST HAVE ALREADY BUILT AND INSTALLED GCC and BINUTILS.

More Documentation  
=====

Newlib documentation is available on the net via:  
<http://sourceware.org/newlib/docs.html>

All the documentation for NEWLIB comes as part of the machine-readable distribution. The documentation is written in Texinfo format, which is a documentation system that uses a single source file to produce both on-line information and a printed manual. You can use one of the Info formatting commands to create the on-line version of the documentation and TeX (or 'texi2roff') to typeset the printed version.

If you want to format these Info files yourself, you need one of the Info formatting programs, such as 'texinfo-format-buffer' or 'makeinfo'.

If you want to typeset and print copies of this manual, you need TeX, a program to print its DVI output files, and ``texinfo.tex'`, the Texinfo definitions file.

TeX is a typesetting program; it does not print files directly, but produces output files called DVI files. To print a typeset document, you need a program to print DVI files. If your system has TeX installed, chances are it has such a program. The precise command to use depends on your system; ``lpr -d'` is common; another (for PostScript devices) is ``dvips'`. The DVI print command may require a file name without any extension or a ``.dvi'` extension.

TeX also requires a macro definitions file called ``texinfo.tex'`. This file tells TeX how to typeset a document written in Texinfo format. On its own, TeX cannot read, much less typeset a Texinfo file. ``texinfo.tex'` is distributed with NEWLIB and is located in the ``newlib-VERSION-NUMBER/texinfo'` directory.

#### Compiling NEWLIB =====

To compile NEWLIB, you must build it in a directory separate from the source directory. If you want to run NEWLIB versions for several host or target machines, you need a different ``newlib'` compiled for each combination of host and target. ``configure'` is designed to make this easy by allowing you to generate each configuration in a separate subdirectory. If your ``make'` program handles the ``VPATH'` feature correctly (like GNU ``make'`) running ``make'` in each of these directories builds the ``newlib'` libraries specified there.

To build ``newlib'` in a specific directory, run ``configure'` with the ``--srcdir'` option to specify where to find the source. (You also need to specify a path to find ``configure'` itself from your working directory. If the path to ``configure'` would be the same as the argument to ``--srcdir'`, you can leave out the ``--srcdir'` option; it will be assumed.)

For example, with version 2.0.0, you can build NEWLIB in a separate directory for a Sun 4 cross m68k-aout environment like this:

```
cd newlib-2.0.0
mkdir ../newlib-m68k-aout
cd ../newlib-m68k-aout
../newlib-2.0.0/configure --host=sun4 --target=m68k-aout
make
```

When ``configure'` builds a configuration using a remote source directory, it creates a tree for the binaries with the same structure (and using the same names) as the tree under the source directory. In the example, you'd find the Sun 4 library ``libiberty.a'` in the directory ``newlib-m68k-aout/libiberty'`, and NEWLIB itself in ``newlib-m68k-aout/newlib'`.

When you run ``make'` to build a program or library, you must run it in a configured directory--whatever directory you were in when you called ``configure'` (or one of its subdirectories).

The 'Makefile' that 'configure' generates in each source directory also runs recursively. If you type 'make' in a source directory such as 'newlib-2.0.0' (or in a separate configured directory configured with '--srcdir=PATH/newlib-2.0.0'), you will build all the required libraries.

When you have multiple hosts or targets configured in separate directories, you can run 'make' on them in parallel (for example, if they are NFS-mounted on each of the hosts); they will not interfere with each other.

#### Specifying names for hosts and targets

=====

The specifications used for hosts and targets in the 'configure' script are based on a three-part naming scheme, but some short predefined aliases are also supported. The full naming scheme encodes three pieces of information in the following pattern:

ARCHITECTURE-VENDOR-OS

For example, you can use the alias 'sun4' as a HOST argument or in a '--target=TARGET' option. The equivalent full name is 'sparc-sun-sunos4'.

The 'configure' script accompanying NEWLIB does not provide any query facility to list all supported host and target names or aliases. 'configure' calls the Bourne shell script 'config.sub' to map abbreviations to full names; you can read the script, if you wish, or you can use it to test your guesses on abbreviations--for example:

```
% sh config.sub sun4
sparc-sun-sunos4.1.1
% sh config.sub sun3
m68k-sun-sunos4.1.1
% sh config.sub decstation
mips-dec-ultrix4.2
% sh config.sub hp300bsd
m68k-hp-bsd
% sh config.sub i386v
i386-pc-sysv
% sh config.sub i786v
Invalid configuration `i786v': machine `i786v' not recognized
```

#### The Build, Host and Target Concepts in newlib

=====

The build, host and target concepts are defined for gcc as follows:

build: the platform on which gcc is built.  
host: the platform on which gcc is run.  
target: the platform for which gcc generates code.

Since newlib is a library, the target concept does not apply to it, and the build, host, and target options given to the top-level configure script must be changed for newlib's use.

The options are shifted according to these correspondences:

gcc's build platform has no equivalent in newlib.  
gcc's host platform is newlib's build platform.  
gcc's target platform is newlib's host platform.  
and as mentioned before, newlib has no concept of target.

`configure' options  
=====

Here is a summary of the `configure' options and arguments that are most often useful for building NEWLIB. `configure' also has several other options not listed here.

```
configure [--help]
           [--prefix=DIR]
           [--srcdir=PATH]
           [--target=TARGET] HOST
```

You may introduce options with a single '-' rather than '--' if you prefer; but you may abbreviate option names if you use '--'.

`--help'

Display a quick summary of how to invoke `configure'.

`--prefix=DIR'

Configure the source to install programs and files in directory `DIR'.

`--exec-prefix=DIR'

Configure the source to install host-dependent files in directory `DIR'.

`--srcdir=PATH'

\*Warning: using this option requires GNU `make', or another `make' that compatibly implements the `VPATH' feature.  
Use this option to make configurations in directories separate from the NEWLIB source directories. Among other things, you can use this to build (or maintain) several configurations simultaneously, in separate directories. `configure' writes configuration specific files in the current directory, but arranges for them to use the source in the directory PATH. `configure' will create directories under the working directory in parallel to the source directories below PATH.

`--norecursion'

Configure only the directory level where `configure' is executed; do not propagate configuration to subdirectories.

`--target=TARGET'

Configure NEWLIB for running on the specified TARGET.

There is no convenient way to generate a list of all available targets.

`HOST ...'

Configure NEWLIB to be built using a cross compiler running on the specified HOST.

There is no convenient way to generate a list of all available hosts.

To fit diverse usage models, NEWLIB supports a group of configuration options so that library features can be turned on/off according to target system's requirements.

One feature can be enabled by specifying `--enable-FEATURE=yes` or `--enable-FEATURE`. Or it can be disabled by `--enable-FEATURE=no` or `--disable-FEATURE`.

`--enable-newlib-io-pos-args`  
Enable printf-family positional arg support.  
Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-io-c99-formats`  
Enable C99 support in IO functions like `printf/scanf`.  
Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-register-fini`  
Enable finalization function registration using `atexit`.  
Disabled by default.

`--enable-newlib-io-long-long`  
Enable long long type support in IO functions like `printf/scanf`.  
Disabled by default, but many hosts enable it in `configure.host`.

`--enable-newlib-io-long-double`  
Enable long double type support in IO functions `printf/scanf`.  
Disabled by default, but some hosts enable it in `configure.host`.

`--enable-newlib-mb`  
Enable multibyte support.  
Disabled by default.

`--enable-newlib-iconv-encodings`  
Enable specific comma-separated list of bidirectional iconv encodings to be built-in.  
Disabled by default.

`--enable-newlib-iconv-from-encodings`  
Enable specific comma-separated list of `"from"` iconv encodings to be built-in.  
Disabled by default.

`--enable-newlib-iconv-to-encodings`  
Enable specific comma-separated list of `"to"` iconv encodings to be built-in.  
Disabled by default.

`--enable-newlib-iconv-external-ccs`  
Enable capabilities to load external CCS files for iconv.  
Disabled by default.

`--disable-newlib-atexit-dynamic-alloc`  
Disable dynamic allocation of `atexit` entries.  
Most hosts and targets have it enabled in `configure.host`.

`--enable-newlib-reent-small`  
Enable small reentrant struct support.  
Disabled by default.

`--disable-newlib-fvwrite-in-streamio`

NEWLIB implements the vector buffer mechanism to support stream IO buffering required by C standard. This feature is possibly unnecessary for embedded systems which won't change file buffering with functions like `setbuf` or `setvbuf`. The buffering mechanism still acts as default for STDIN/STDOUT/STDERR even if this option is specified.  
Enabled by default.

`--disable-newlib-fseek-optimization'`  
Disable fseek optimization. It can decrease code size of application calling `fseek`.  
Enabled by default.

`--disable-newlib-wide-orient'`  
C99 states that each stream has an orientation, wide or byte. This feature is possibly unnecessary for embedded systems which only do byte input/output operations on stream. It can decrease code size by disable the feature.  
Enabled by default.

`--enable-newlib-nano-malloc'`  
NEWLIB has two implementations of malloc family's functions, one in `mallocr.c` and the other one in `nano-mallocr.c`. This options enables the nano-malloc implementation, which is for small systems with very limited memory. Note that this implementation does not support `--enable-malloc-debugging` any more.  
Disabled by default.

`--disable-newlib-unbuf-stream-opt'`  
NEWLIB does optimization when `fprintf` to write only unbuffered unix file'. It creates a temporary buffer to do the optimization that increases stack consumption by about `BUFSIZ` bytes. This option disables the optimization and saves size of text and stack.  
Enabled by default.

`--enable-multilib'`  
Build many library versions.  
Enabled by default.

`--enable-target-optspace'`  
Optimize for space.  
Disabled by default.

`--enable-malloc-debugging'`  
Indicate malloc debugging requested.  
Disabled by default.

`--enable-newlib-multithread'`  
Enable support for multiple threads.  
Enabled by default.

`--enable-newlib-iconv'`  
Enable iconv library support.  
Disabled by default.

`--enable-newlib-elix-level'`  
Supply desired elix library level (1-4). Please refer to HOWTO for more information about this option.  
Set to level 0 by default.

```

`--disable-newlib-io-float'
    Disable printf/scanf family float support.
    Enabled by default.

`--disable-newlib-supplied-syscalls'
    Disable newlib from supplying syscalls.
    Enabled by default.

`--enable-lite-exit'
    Enable lite exit, a size-reduced implementation of exit that doesn't
    invoke clean-up functions such as _fini or global destructors.
    Disabled by default.

```

#### Running the Testsuite

=====

To run newlib's testsuite, you'll need a site.exp in your home directory which points dejagnu to the proper baseboards directory and the proper exp file for your target.

Before running make check-target-newlib, set the DEJAGNU environment variable to point to ~/site.exp.

Here is a sample site.exp:

```

# Make sure we look in the right place for the board description files.
if ![info exists boards_dir] {
    set boards_dir {}
}
lappend boards_dir "your dejagnu/baseboards here"

verbose "Global Config File: target_triplet is $target_triplet" 2

global target_list
case "$target_triplet" in {
    { "mips-elf*" } {
        set target_list "mips-sim"
    }

    default {
        set target_list { "unix" }
    }
}

```

mips-sim refers to an exp file in the baseboards directory. You'll need to add the other targets you're testing to the case statement.

Now type make check-target-newlib in the top-level build directory to run the testsuite.

#### Shared newlib

=====

newlib uses libtool when it is being compiled natively (with --target=i[34567]86-pc-linux-gnu) on an i[34567]86-pc-linux-gnu host. This allows newlib to be compiled as a shared library.

To configure newlib, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir)
```

configure will recognize that host == target == i[34567]86-pc-linux-gnu, so it will tell newlib to compile itself using libtool. By default, libtool will build shared and static versions of newlib.

To compile a program against shared newlib, do the following (where target\_install\_dir = \$(install\_dir)/i[34567]86-pc-linux-gnu):

```
gcc -nostdlib $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm -lgcc
```

To run the program, make sure that \$(target\_install\_dir)/lib is listed in the LD\_LIBRARY\_PATH environment variable.

To create a static binary linked against newlib, do the following:

```
gcc -nostdlib -static $(target_install_dir)/lib/crt0.o progname.c -I
$(target_install_dir)/include -L $(target_install_dir)/lib -lc -lm
```

libtool can be instructed to produce only static libraries. To build newlib as a static library only, do the following from your build directory:

```
$(source_dir)/src/configure --with-newlib --prefix=$(install_dir) --disable-
shared
```

#### Regenerating Configuration Files

=====

At times you will need to make changes to configure.in and Makefile.am files. This will mean that configure and Makefile.in files will need to be regenerated.

At the top level of newlib is the file: acinclude.m4. This file contains the definition of the NEWLIB\_CONFIGURE macro which is used by all configure.in

files in newlib. You will notice that each directory in newlib containing a configure.in file also contains an aclocal.m4 file. This file is generated by issuing: aclocal -I\${relative\_path\_to\_toplevel\_newlib\_dir} -I\${relative\_path\_to\_toplevel\_src\_dir}

The first relative directory is to access acinclude.m4. The second relative directory is to access libtool information in the top-level src directory.

For example, to regenerate aclocal.m4 in newlib/libc/machine/arm:

```
aclocal -I ../../.. -I ../../../../..
```

Note that if the top level acinclude.m4 is altered, every aclocal.m4 file in newlib should be regenerated.

If the aclocal.m4 file is regenerated due to a change in acinclude.m4 or if a configure.in file is modified, the corresponding configure file in the directory must be regenerated using autoconf. No parameters are necessary. In the previous example, we would issue:

```
autoconf
```

from the newlib/libc/machine/arm directory.



If you have regenerated a configure file or if you have modified a Makefile.am file, you will need to regenerate the appropriate Makefile.in file(s). For newlib, automake is a bit trickier. First of all, all Makefile.in files in newlib (and libgloss) are generated using the --cygnus option of automake.

Makefile.in files are generated from the nearest directory up the chain which contains a configure.in file. In most cases, this is the same directory containing configure.in, but there are exceptions. For example, the newlib/libc directory has a number of subdirectories that do not contain their own configure.in files (e.g. stdio). For these directories, you must issue the automake command from newlib/libc which is the nearest parent directory that contains a configure.in. When you issue the automake command, you specify the subdirectory for the Makefile.in you are regenerating. For example:

```
automake --cygnus stdio/Makefile stdlib/Makefile
```

Note how multiple Makefile.in files can be created in the same step. You would not specify machine/Makefile or sys/Makefile in the previous example because both of these subdirectories contain their own configure.in files. One would change to each of these subdirectories and in turn issue:

```
automake --cygnus Makefile
```

Let's say you create a new machine directory XXXX off of newlib/libc/machine. After creating a new configure.in and Makefile.am file, you would issue:

```
aclocal -I ../../..  
autoconf  
automake --cygnus Makefile
```

from newlib/libc/machine/XXXX

It is strongly advised that you use an adequate version of autotools. For this latest release, the following were used: autoconf 2.68, aclocal 1.11.6, and automake 1.11.6.

Reporting Bugs  
=====

The correct address for reporting bugs found in NEWLIB is "newlib@sourceware.org". Please email all bug reports to that address. Please include the NEWLIB version number (e.g., newlib-2.0.0), and how you configured it (e.g., "sun4 host and m68k-aout target"). Since NEWLIB supports many different configurations, it is important that you be precise about this.

Archives of the newlib mailing list are on-line, see  
<http://sourceware.org/ml/newlib/>

## pthread-win32

pthread-win32 - a POSIX threads library for Microsoft Windows

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#### Why pthreads-win32 did not use the GNU General Public License

-----

The goal of the pthreads-win32 project has been to  
provide a quality and complete implementation of the POSIX  
threads API for Microsoft Windows within the limits imposed  
by virtue of it being a stand-alone library and not  
linked directly to other POSIX compliant libraries. For

example, some functions and features, such as those based on POSIX signals, are missing.

Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on it's own.

It was fully intended that pthreads-win32 be usable with commercial software not covered by either the GPL or the LGPL licenses. Pthreads-win32 has many contributors to it's code base, many of whom have done so because they have used the library in commercial or proprietry software projects.

Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.

Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market

## open-vcdiff

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

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

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

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

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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:

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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.

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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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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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.

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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.

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

engineering for debugging such modifications.

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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## Almost Native Graphics Layer Engine

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## Checkstyle is a development tool to help programmers write Java code that

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## Compact Language Detection

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## Compact Language Detection 2

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## Expat XML Parser

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## Ffmpeg

#FFmpeg:

Most files in FFmpeg are under the GNU Lesser General Public License version 2.1 or later (LGPL v2.1+). Read the file COPYING.LGPLv2.1 for details. Some other files have MIT/X11/BSD-style licenses. In combination the LGPL v2.1+ applies to FFmpeg.

Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file COPYING.GPLv2 for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- 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\_eburl28.c
  - vf\_blackframe.c
  - vf\_boxblur.c
  - vf\_colormatrix.c
  - vf\_cropdetect.c
  - vf\_decimate.c
  - vf\_delogo.c
  - vf\_geq.c
  - vf\_histeq.c
  - vf\_hqdn3d.c
  - vf\_interlace.c
  - vf\_kerndeint.c
  - vf\_mcdeint.c
  - vf\_mp.c
  - vf\_owdenoise.c
  - vf\_perspective.c
  - vf\_phase.c
  - vf\_pp.c
  - vf\_pullup.c
  - vf\_sab.c
  - vf\_smartblur.c
  - vf\_spp.c
  - vf\_stereo3d.c
  - vf\_super2xsai.c
  - vf\_tinterlace.c

- vsrc\_mptestsrc.c

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

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

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

external libraries  
=====

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

compatible libraries  
-----

The following libraries are under GPL:

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

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

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

incompatible libraries  
-----

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

If you wish to enable these libraries, pass `--enable-nonfree` to configure. But note that if you enable any of these libraries the resulting binary will 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.

## fips181

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## Flac

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## Flot Javascript/JQuery library for creating graphs

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## Braille Translation Library

(Copied from src/liblouis/liblouis.h.in)

/\* liblouis Braille Translation and Back-Translation Library

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

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July 7, 2011

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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.

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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## Libusbx

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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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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.

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Ty Coon, President of Vice
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## modp base64 decoder

```
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*
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```

## mt19937ar

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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## PLY (Python Lex-Yacc)

PLY (Python Lex-Yacc)

Version 3.4

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```

## Coverage

"""Code coverage measurement for Python.

Ned Batchelder  
<http://nedbatchelder.com/code/coverage>

```
"""

from coverage.version import __version__, __url__

from coverage.control import coverage, process_startup
from coverage.data import CoverageData
from coverage.cmdline import main, CoverageScript
from coverage.misc import CoverageException

# Module-level functions. The original API to this module was based on
# functions defined directly in the module, with a singleton of the coverage()
# class. That design hampered programmability, so the current api uses
# explicitly-created coverage objects. But for backward compatibility, here we
# define the top-level functions to create the singleton when they are first
# called.

# Singleton object for use with module-level functions. The singleton is
# created as needed when one of the module-level functions is called.
_the_coverage = None

def _singleton_method(name):
    """Return a function to the `name` method on a singleton `coverage` object.

    The singleton object is created the first time one of these functions is
    called.

    """
    # Disable pylint msg W0612, because a bunch of variables look unused, but
    # they're accessed via locals().
    # pylint: disable=W0612

    def wrapper(*args, **kwargs):
        """Singleton wrapper around a coverage method."""
        global _the_coverage
        if not _the_coverage:
            _the_coverage = coverage(auto_data=True)
        return getattr(_the_coverage, name)(*args, **kwargs)

    import inspect
    meth = getattr(coverage, name)
    args, varargs, kw, defaults = inspect.getargspec(meth)
    argspec = inspect.formatargspec(args[1:], varargs, kw, defaults)
    docstring = meth.__doc__
    wrapper.__doc__ = ("""\
    A first-use-singleton wrapper around coverage.%(name)s.

    This wrapper is provided for backward compatibility with legacy code.
    New code should use coverage.%(name)s directly.

    %(name)s%(argspec)s:

    %(docstring)s
    """ % locals()
    )

    return wrapper
```

```

# Define the module-level functions.
use_cache = _singleton_method('use_cache')
start =     _singleton_method('start')
stop =      _singleton_method('stop')
erase =     _singleton_method('erase')
exclude =   _singleton_method('exclude')
analysis =  _singleton_method('analysis')
analysis2 = _singleton_method('analysis2')
report =    _singleton_method('report')
annotate =  _singleton_method('annotate')

# On Windows, we encode and decode deep enough that something goes wrong and
# the encodings.utf_8 module is loaded and then unloaded, I don't know why.
# Adding a reference here prevents it from being unloaded.  Yuk.
import encodings.utf_8

# Because of the "from coverage.control import fooey" lines at the top of the
# file, there's an entry for coverage.coverage in sys.modules, mapped to None.
# This makes some inspection tools (like pydoc) unable to find the class
# coverage.coverage.  So remove that entry.
import sys
try:
    del sys.modules['coverage.coverage']
except KeyError:
    pass

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```

## Python FTP server library

```
=====
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## Quick Color Management System

qcms

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```
/*****  
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 *  
 * AUTHORS: Vijay Ganesh  
 *  
 * BEGIN DATE: November, 2005  
 *****/
```

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CVC's SMT-LIB Parser  
 \file smtlib.y

Author: Sergey Berezin, Clark Barrett

Created: Apr 30 2005

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```
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; * x86inc.asm
; *****
; * Copyright (C) 2005-2011 x264 project
; *
; * Authors: Loren Merritt <lorenm@u.washington.edu>
; *          Anton Mitrofanov <BugMaster@narod.ru>
; *          Jason Garrett-Glaser <darkshikari@gmail.com>
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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.
```

```
; Unlike the rest of x264, this file is available under an ISC license, as it
; has significant usefulness outside of x264 and we want it to be available
; to the largest audience possible. Of course, if you modify it for your own
; purposes to add a new feature, we strongly encourage contributing a patch
; as this feature might be useful for others as well. Send patches or ideas
; to x264-devel@videolan.org .
```

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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)
- Ben Skeggs (patches, bug reports)
- Alexei Svitkine (GAS preprocessor)
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## Zlib

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

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Purpose: Implement splitter control for dialog or any other windows.

Author: Nguyen Huy Hung, Vietnamese student.

Date: May 29th 2002.

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## Difference Algorithm for C#

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## Qt

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Version 2, June 1991

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## Sizzle CSS Selector Engine

The Sizzle CSS Selector Engine (available at <http://sizzlejs.com>) is used in the QuickTest Professional Web Add-in implementation.

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# SuperWebSocket

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- *jQuery* ( Used by the fallback) *JavaScript library*.

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## Tyrus

[25/06/2015 19:22] Rosenzveig, Jackie:



The tyrus library code is supplied in the folder where the installation was extracted. (Default = c:\Temp\LeanFT).

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