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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.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using such a mathematical system to generate more random (yet non-repeating) ids to solve the resolver/named problem. But Niels designed the actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit permutation generator based on a Luby-Rackoff block cipher. This ensures the output is non-repeating and preserves the MSB twiddle trick, but makes it more resistant to LCG prediction.

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2.11 Animal Sniffer Annotations (11)

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2.13 ARM_NEON_2_x86_SSE (13)

created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation,
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2.16 blink HTMLTokenizer (16)

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2.17 Braille Translation Library (17)

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

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*/
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```
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2.20 bspatch (20)

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2.21 C++ port of zxcvbn, an advanced password strength estimation library. (21)

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2.24 Checked in build outputs generated on Windows. (24)

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2.26 Checker Util (26)

```
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2.27 Chrome built-in TTS extension WASM bindings (27)

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April 10, 2009

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2.36 d3 (36)

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2.37 dav1d is an AV1 decoder :) (37)

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2.38 dom-distiller-js (38)

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2.42 etc1 (42)

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2.43 FarmHash (43)

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2.44 feature-delivery (44)

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Version 1.1

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2.45 firebase-iid (45)

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December 9, 2016

Android SDK:

ANDROID SOFTWARE DEVELOPMENT KIT

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Android SDK:

ANDROID SOFTWARE DEVELOPMENT KIT

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April 10, 2009

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2.52 getopt (52)

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2.53 Google Chrome Content Analysis Connector Agent SDK (53)

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2.54 Google Double Conversion (54)

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2.55 google-glog's symbolization library (55)

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2.56 googleid (56)

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2.57 Headers for DirectX APIs. (57)

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2.58 Headers for the Windows 10 WebAuthn API (webauthn.dll) (58)

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2.60 hyphenation-patterns (60)

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Author:   conversion author is Peter Novodvorsky <nidd@altlinux.ru>

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HYPH ru RU hyph_ru_RU

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2.62 iccjpeg (62)

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2.63 inspector protocol (63)

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2.65 ISimpleDOM COM interfaces for accessibility (65)

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2.66 JNI Zero (66)

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2.67 jsoncpp (67)

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2.68 jszip (68)

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2.69 Khronos header files (69)

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2.71 libbrlapi (71)

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2.72 libei (72)

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2.74 libjingle XMPP and xmllite libraries (74)

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2.75 libpng (75)

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2.76 libsecret (76)

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2.86 Lottie Web (86)

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BezierEasing - use bezier curve for transition easing function
by Gaëtan Renaudeau 2014 - 2015 - MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
spline.get(x) => returns the easing value | x must be in [0, 1] range

2.87 lottie_ios (87)

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2.95 modp base64 decoder (95)

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2.99 Netscape Portable Runtime (NSPR) (99)

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2.100 Network Security Services (NSS) (100)

```
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2.101 newlib-extras (101)

```
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.

The newlib and libgloss subdirectories are a collection of software from
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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

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==========

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

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```
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 disable 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.
```

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```
`--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'
```

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NEWLIB does optimization when `fprintf to write only unbuffered unix file'.  It creates a temorary 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
```

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```
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

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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),

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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/

2.102 Omnibox Protos (102)

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```

2.103 One Euro Filter (103)

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2.104 opus (104)

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2.105 OTS (OpenType Sanitizer) (105)

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2.106 Paul Hsieh's SuperFastHash (106)

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2.107 PFFFT: a pretty fast FFT. (107)

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2.108 play-services-auth (108)

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December 9, 2016

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2.110 play-services-auth-base (110)

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December 9, 2016

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2.111 play-services-auth-blockstore (111)

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2.113 play-services-cast (113)

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December 9, 2016

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2.116 play-services-cloud-messaging (116)

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December 9, 2016

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December 9, 2016

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2.118 play-services-flags (118)

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2.119 play-services-iid (119)

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December 9, 2016

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December 9, 2016

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December 9, 2016

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December 9, 2016

AndroidX lifecycle common library, AndroidX lifecycle livedatacore library, AndroidX lifecycle runtime library:

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2.126 Protocol Buffers (javascript) (126)

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2.127 PSM (Private Set Membership) client side (127)

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2.128 Puffin deterministic deflate recompressor (128)

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2.129 rapidhash (129)

```
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*
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*
* You can contact the author at:
*   - rapidhash source repository: https://github.com/Nicoshev/rapidhash
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```

2.130 re2 - an efficient, principled regular expression library (130)

```
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2.131 Recurrent neural network for audio noise reduction (131)

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2.132 ScreenAI Library (132)

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rust/utf8.rs

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test_ifd_loop_detection.c

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AVX implementation of sin, cos, sincos, exp and log

Based on "sse_mathfun.h", by Julien Pommier
http://gruntthepeon.free.fr/ssemath/

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== gfortran_14_1_0

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## SipHash v1.0-68c8a7c

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## The Unicode Standard, Unicode Character Database, Version 15.0.0

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Ext headers       GL/glext.h             Khronos
GL/glxext.h            Khronos
GL/wglext.h            Khronos
KHR/khrplatform.h      Khronos
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---
include/GL/gl.h :

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s11cryptotoken.md

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#
google3/third_party/java_src/jdk/openjdk21/src/src/jdk.localedata/share/legal/thaidict
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## Thai Dictionary

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BSD), #define this preprocessor symbol: EIGEN_MPL2_ONLY
For example, with most compilers, you could add this to your project
CXXFLAGS: -DEIGEN_MPL2_ONLY
This will cause a compilation error to be generated if you #include
any code that is covered by more restrictive licences than MPL2.

Following applies to:
./test/sparseqr.cpp
./test/half_float.cpp
./test/zerosized.cpp
./test/nesting_ops.cpp
./test/sizeoverflow.cpp
./test/swap.cpp
./test/product_mmtr.cpp
./test/stdvector_overload.cpp

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```
./test/product_symm.cpp
./test/sparse_block.cpp
./test/eigen2support.cpp
./test/upperbidiagonalization.cpp
./test/numext.cpp
./test/adjoint.cpp
./test/AnnoyingScalar.h
./test/mpl2only.cpp
./test/stddeque.cpp
./test/householder.cpp
./test/product_small.cpp
./test/product_syrk.cpp
./test/inplace_decomposition.cpp
./test/vectorwiseop.cpp
./test/meta.cpp
./test/stdvector.cpp
./test/sparseLM.cpp
./test/diagonalmatrices.cpp
./test/stdlist_overload.cpp
./test/block.cpp
./test/cholmod_support.cpp
./test/basicstuff.cpp
./test/triangular.cpp
./test/product.h
./test/vectorization_logic.cpp
./test/dontalign.cpp
./test/first_aligned.cpp
./test/mapped_matrix.cpp
./test/umfpack_support.cpp
./test/product_selfadjoint.cpp
./test/smallvectors.cpp
./test/corners.cpp
./test/product_trsolve.cpp
./test/determinant.cpp
./test/stdlist.cpp
./test/unalignedcount.cpp
./test/qr.cpp
./test/svd_common.h
./test/ref.cpp
./test/symbolic_index.cpp
./test/geo_transformations.cpp
./test/geo_eulerangles.cpp
./test/eigensolver_selfadjoint.cpp
./test/stddeque_overload.cpp
./test/jacobisvd.cpp
./test/nullary.cpp
./test/inverse.cpp
./test/integer_types.cpp
./test/metis_support.cpp
./test/exceptions.cpp
./test/packetmath.cpp
./test/schur_complex.cpp
./test/type_alias.cpp
./test/unalignedassert.cpp
./test/geo_quaternion.cpp
./test/lu.cpp
./test/qr_fullpivoting.cpp
./test/denseLM.cpp
./test/linearstructure.cpp
./test/rand.cpp
./test/conservative_resize.cpp
./test/eigensolver_generalized_real.cpp
./test/pastix_support.cpp
./test/sparse_solver.h
./test/num_dimensions.cpp
./test/simplicial_cholesky.cpp
./test/hessenberg.cpp
./test/array_reverse.cpp
./test/special_numbers.cpp
```

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```
./test/array_for_matrix.cpp
./test/product_large.cpp
./test/resize.cpp
./test/sparse_solvers.cpp
./test/selfadjoint.cpp
./test/schur_real.cpp
./test/sparse_basic.cpp
./test/conjugate_gradient.cpp
./test/real_qz.cpp
./test/bandmatrix.cpp
./test/dense_storage.cpp
./test/permutationmatrices.cpp
./test/array_cwise.cpp
./test/qr_colpivoting.cpp
./test/array_replicate.cpp
./test/rvalue_types.cpp
./test/stable_norm.cpp
./test/geo_homogeneous.cpp
./test/main.h
./test/eigensolver_complex.cpp
./test/product_trmm.cpp
./test/bicgstab.cpp
./test/redux.cpp
./test/klu_support.cpp
./test/geo_alignedbox.cpp
./test/is_same_dense.cpp
./test/sparse_permutations.cpp
./test/sparse_vector.cpp
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./test/sparse.h
./test/mapstride.cpp
./test/visitor.cpp
./test/geo_hyperplane.cpp
./test/bdcsvd.cpp
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./test/array_of_string.cpp
./test/superlu_support.cpp
./test/sizeof.cpp
./test/boostmultiprec.cpp
./test/commainitializer.cpp
./test/constructor.cpp
./test/mixingtypes.cpp
./test/miscmatrices.cpp
./test/mapstaticmethods.cpp
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./test/initializer_list_construction.cpp
./test/incomplete_cholesky.cpp
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./test/dynalloc.cpp
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./test/jacobi.cpp
./test/sparse_ref.cpp
./test/nomalloc.cpp
./test/spqr_support.cpp
./test/lscg.cpp
./test/cholesky.cpp
./test/eigensolver_generic.cpp
./test/geo_orthomethods.cpp
./test/svd_fill.h
./test/stl_iterators.cpp
```

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```
./Eigen/src/MetisSupport/MetisSupport.h
./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/QR/CompleteOrthogonalDecomposition.h
./Eigen/src/QR/FullPivHouseholderQR.h
./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h
./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/BlockMethods.h
./Eigen/src/plugins/CommonCwiseBinaryOps.h
./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/IndexedViewMethods.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h
./Eigen/src/SVD/UpperBidiagonalization.h
./Eigen/src/SVD/SVDBase.h
./Eigen/src/SVD/BDCSVD.h
./Eigen/src/SVD/JacobiSVD.h
./Eigen/src/SparseLU/SparseLU_relax_snode.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h
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./Eigen/src/SparseLU/SparseLU_pruneL.h
./Eigen/src/SparseLU/SparseLU_copy_to_ucol.h
./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
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./Eigen/src/SparseLU/SparseLU_Structs.h
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./Eigen/src/SparseLU/SparseLU_Memory.h
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./Eigen/src/SparseLU/SparseLU_gemm_kernel.h
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./Eigen/src/Geometry/Umeyama.h
./Eigen/src/Geometry/Transform.h
./Eigen/src/Geometry/OrthoMethods.h
./Eigen/src/Geometry/Hyperplane.h
./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/Translation.h
./Eigen/src/Geometry/Rotation2D.h
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./Eigen/src/Geometry/AlignedBox.h
./Eigen/src/Geometry/ParametrizedLine.h
./Eigen/src/Geometry/Quaternion.h
./Eigen/src/Geometry/AngleAxis.h
./Eigen/src/Geometry/arch/Geometry_SSE.h
./Eigen/src/KLUSupport/KLUSupport.h
./Eigen/src/misc/Kernel.h
./Eigen/src/misc/RealSvd2x2.h
./Eigen/src/misc/Image.h
./Eigen/src/StlSupport/details.h
./Eigen/src/StlSupport/StdList.h
./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h
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./Eigen/src/Householder/HouseholderSequence.h
./Eigen/src/Householder/BlockHouseholder.h
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./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
./Eigen/src/Eigenvalues/Tridiagonalization.h
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./Eigen/src/Eigenvalues/HessenbergDecomposition.h
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./Eigen/src/Eigenvalues/ComplexSchur.h
./Eigen/src/Eigenvalues/ComplexEigenSolver.h
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./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Jacobi/Jacobi.h
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./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/LU/Determinant.h
./Eigen/src/LU/InverseImpl.h
./Eigen/src/LU/PartialPivLU.h
./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/FullPivLU.h
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./Eigen/src/Core/ReturnByValue.h
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./Eigen/src/Core/MatrixBase.h
./Eigen/src/Core/PlainObjectBase.h
./Eigen/src/Core/Transpose.h
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./Eigen/src/Core/MathFunctions.h
./Eigen/src/Core/Stride.h
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./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/products/SelfadjointMatrixVector.h
./Eigen/src/Core/products/GeneralBlockPanelKernel.h
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./Eigen/src/Core/products/SelfadjointProduct.h
./Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
./Eigen/src/Core/products/TriangularSolverVector.h
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./Eigen/src/Core/DenseBase.h
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./Eigen/src/Core/CoreIterators.h
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./Eigen/src/Core/Inverse.h
./Eigen/src/Core/TriangularMatrix.h
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./Eigen/src/Core/ConditionEstimator.h
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./Eigen/src/Core/CwiseBinaryOp.h
./Eigen/src/Core/Visitor.h
./Eigen/src/Core/GenericPacketMath.h
./Eigen/src/Core/SelfAdjointView.h
./Eigen/src/Core/Random.h
./Eigen/src/Core/Solve.h
./Eigen/src/Core/arch/AltiVec/MathFunctions.h
./Eigen/src/Core/arch/AltiVec/PacketMath.h
./Eigen/src/Core/arch/AltiVec/Complex.h
./Eigen/src/Core/arch/MSA/MathFunctions.h
./Eigen/src/Core/arch/MSA/Complex.h
./Eigen/src/Core/arch/MSA/PacketMath.h
./Eigen/src/Core/arch/GPU/Half.h
./Eigen/src/Core/arch/GPU/PacketMathHalf.h
./Eigen/src/Core/arch/GPU/MathFunctions.h
./Eigen/src/Core/arch/GPU/PacketMath.h
./Eigen/src/Core/arch/GPU/TypeCasting.h
./Eigen/src/Core/arch/NEON/MathFunctions.h
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./Eigen/src/Core/arch/AVX/MathFunctions.h
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./Eigen/src/Core/arch/AVX/Complex.h
./Eigen/src/Core/arch/AVX/PacketMath.h
./Eigen/src/Core/arch/SYCL/InteropHeaders.h
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./Eigen/src/Core/arch/AVX512/Complex.h
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./Eigen/src/Core/arch/ZVector/MathFunctions.h
./Eigen/src/Core/arch/ZVector/PacketMath.h
./Eigen/src/Core/arch/ZVector/Complex.h
./Eigen/src/Core/arch/CUDA/Complex.h
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./Eigen/src/Core/GeneralProduct.h
./Eigen/src/Core/Matrix.h
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./Eigen/src/Core/CwiseUnaryOp.h
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./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
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./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
./Eigen/src/IterativeLinearSolvers/IncompleteCholesky.h
./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h
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./unsupported/Eigen/src/SpecialFunctions/SpecialFunctionsFunctors.h
./unsupported/Eigen/src/SpecialFunctions/SpecialFunctionsArrayAPI.h
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./unsupported/Eigen/src/BVH/BVAlgorithms.h
./unsupported/Eigen/src/AutoDiff/AutoDiffJacobian.h
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./unsupported/Eigen/CXX11/src/util/MaxSizeVector.h
./unsupported/Eigen/CXX11/src/util/EmulateArray.h
./unsupported/Eigen/CXX11/src/util/CXX11Workarounds.h
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./unsupported/Eigen/CXX11/src/ThreadPool/NonBlockingThreadPool.h
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./unsupported/Eigen/CXX11/src/FixedPoint/FixedPointTypes.h
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./lapack/eigenvalues.cpp
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./lapack/complex_double.cpp
./lapack/cholesky.cpp
./lapack/lapack_common.h
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./blas/PackedTriangularMatrixVector.h
./blas/level3_impl.h
./blas/complex_double.cpp
./blas/common.h
./blas/GeneralRank1Update.h
./blas/double.cpp
./blas/complex_single.cpp
./blas/Rank2Update.h
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./blas/level2_real_impl.h
./blas/level1_real_impl.h
./blas/single.cpp
./blas/PackedSelfadjointProduct.h
./blas/BandTriangularSolver.h
./blas/level2_cplx_impl.h
./blas/PackedTriangularSolverVector.h
./blas/level1_cplx_impl.h
./bench/analyze-blocking-sizes.cpp
./bench/BenchTimer.h
./bench/spbench/spbenchsolver.h
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./bench/spbench/spbenchstyle.h
./bench/benchFFT.cpp
./bench/eig33.cpp
./bench/benchmark-blocking-sizes.cpp
./demos/opengl/quaternion_demo.cpp
./demos/opengl/camera.h
./demos/opengl/gpuhelper.cpp
./demos/opengl/gpuhelper.h
./demos/opengl/icosphere.cpp
./demos/opengl/quaternion_demo.h
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./demos/opengl/trackball.cpp
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./demos/mix_eigen_and_c/binary_library.cpp
./demos/mandelbrot/mandelbrot.cpp
./demos/mandelbrot/mandelbrot.h

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== intrinsics

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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== libnuma

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Developed by:

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2.135 simdutf unicode transcoder (135)

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2.137 simplejson (137)

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2.138 Sizzle (138)

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2.140 sqlite (140)

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2.142 TensorFlow Lite (142)

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2.143 TensorFlow Lite Support (143)

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2.148 UnRAR source for decompressing .RAR and other files. (148)

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2.149 URL Pattern Library (149)

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2.150 url_parse (150)

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2.151 v4l-utils (151)

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the

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source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

2.152 V8 fork of fdlibm (152)

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

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

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

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

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

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

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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.

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

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

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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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2.154 Wicked Good XPath (154)

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2.159 xnu (159)

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2.160 XZ Utils (160)

```
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==================

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The following command may be helpful in finding per-file license
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sh build-aux/license-check.sh -v

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2.161 zod (161)

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2.177 ICU (177)

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2.181 bzip2-1.0.6 (181)

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