Third-Party Notices

Microsoft Edge for Android

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Android adaptation and tweak by Jim Huang <[jserv@0xlab.org](mailto:jserv@0xlab.org)>.

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Emulation of getentropy(2) as documented at: <http://www.openbsd.org/cgi-bin/man.cgi/OpenBSD-current/man2/getentropy.2>

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Theo de Raadt <[deraadt@openbsd.org](mailto: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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memchr - find a character in a memory zone

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## Android Explicit Synchronization

**Android Explicit Synchronization va7c7bce252a6bce1539e9caa84420de3698029e7**

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## Asm

ASM: a very small and fast Java bytecode manipulation framework

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## android-gif-drawable version v1.2.6

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## android-priority-jobqueue version 2.0.1

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## Android-Universal-ImageLoader v1.9.5

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<https://github.com/google/benchmark/tree/95a1435b8171f7e781fe0465bff8146609a488c1>

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Extracted from mac/include/DeckLinkAPI.h:

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## Cognitive-Speech-STT-Windows version 1.2.2

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## Compact Encoding Detection

Compact Encoding Detection v2f40a850bcc5d6f7c1bfa02dbf42ad19d8220dc0

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<https://github.com/CLD2Owners/cld2>

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## CRC32C

<https://github.com/google/crc32c>

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## David M. Gay’s floating point routines

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## dom-distiller-js

**dom-distiller-js v489c6609cb**

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## enum34

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ffmpeg (chromium fork) #de23348fef6fd063b066e9652005973f86ed52ff

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- optional x86 optimization in the files   
  - `libavcodec/x86/flac\_dsp\_gpl.asm`   
  - `libavcodec/x86/idct\_mmx.c`   
  - `libavfilter/x86/vf\_removegrain.asm`   
- the following building and testing tools   
  - `compat/solaris/make\_sunver.pl`   
  - `doc/t2h.pm`   
  - `doc/texi2pod.pl`   
  - `libswresample/swresample-test.c`   
  - `tests/checkasm/\*`   
  - `tests/tiny\_ssim.c`   
- the following filters in libavfilter:   
  - `vf\_blackframe.c`   
  - `vf\_boxblur.c`   
  - `vf\_colormatrix.c`   
  - `vf\_cover\_rect.c`   
  - `vf\_cropdetect.c`   
  - `vf\_delogo.c`   
  - `vf\_eq.c`   
  - `vf\_find\_rect.c`   
  - `vf\_fspp.c`   
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  - `vf\_hqdn3d.c`   
  - `vf\_interlace.c`   
  - `vf\_kerndeint.c`   
  - `vf\_mcdeint.c`   
  - `vf\_mpdecimate.c`   
  - `vf\_owdenoise.c`   
  - `vf\_perspective.c`   
  - `vf\_phase.c`   
  - `vf\_pp.c`   
  - `vf\_pp7.c`   
  - `vf\_pullup.c`   
  - `vf\_repeatfields.c`   
  - `vf\_sab.c`   
  - `vf\_smartblur.c`   
  - `vf\_spp.c`   
  - `vf\_stereo3d.c`   
  - `vf\_super2xsai.c`   
  - `vf\_tinterlace.c`   
  - `vf\_uspp.c`   
  - `vsrc\_mptestsrc.c`

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

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

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

## External libraries

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

### Compatible libraries

The following libraries are under GPL:   
- frei0r   
- libcdio   
- librubberband   
- 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

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. 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.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

The NVENC library, while its header file is licensed under the compatible MIT license, requires a proprietary binary blob at run time, and is deemed to be incompatible with the GPL. We are not certain if it is compatible with the LGPL, but we require `--enable-nonfree` even with LGPL configurations in case it is not.

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Until such time as the uptake on author-choice hybrid OA reaches a tipping point that starts to reduce subscriptions, ACM will rebate or provide credits on a going forward basis 100% of the revenue generated from its Hybrid Open Access publishing program.

ACM's Hybrid Open Access Publishing Program began in April 2013. Starting in 2014, ACM will distribute all hybrid OA revenue to its academic institutional subscriber base.

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The practice of enhancing net revenues by retaining OA fees for content that is also paid for by subscription has been dubbed "double-dipping".

In developing ACM's Hybrid Open Access model, much consideration was given to concerns raised about this perceived "double-dipping" by some publishers.

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## FreeType vVER-2-7-1-updates

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2006-Jan-27

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--- end of FTL.TXT ---

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## GifPlayer Animated GIF Library vr8

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## glog

<https://github.com/google/glog/tree/2063b387080c1e7adffd33ca07adff0eb346ff1a>

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## Google Toolbox for Mac v626

<https://github.com/google/google-toolbox-for-mac>

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## googletest/googlemock

<https://github.com/google/googletest/tree/d175c8bf823e709d570772b038757fadf63bc632/googlemock>

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## googletest/googletest/

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## libjingle XMPP and xmllite libraries

**libjingle XMPP and xmllite libraries v5493b8a59deb16cf0481e24707a0ed72d19047dc**

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## libjpeg v6b

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## libprotobuf-mutator

<https://github.com/google/libprotobuf-mutator>

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<https://github.com/material-foundation/material-sprited-animation-view-ios>

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## newlib-extras v2.0.0

<ftp://sourceware.org/pub/newlib/newlib-2.0.0.tar.gz>

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 several sources, each wi6h their own copyright and license. See the file COPYING.NEWLIB for details. The rest of the release tree is under either the GNU GPL or LGPL licenses.

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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 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.

`--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 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   
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   
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## nimbus-jose-jwt

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## Nmoinvaz/minizip

<https://github.com/nmoinvaz/minizip>

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## re2 - an efficient, principled regular expression library

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<https://github.com/readium/readium-shared-js/>

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## simplejson v2.6.2

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## Snappy: A fast compressor/decompressor v1.1.0-updates

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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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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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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## woff2

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## xdg-user-dirs

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## xdg-utils

**xdg-utils v3ba869a97b737fd308502a7f9e63bda202891642**

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## Yara

<https://github.com/virustotal/yara>

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## zlib v1.2.11

version 1.2.11, January 15th, 2017

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