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2.3 Python-2.0 (3)

A. HISTORY OF THE SOFTWARE
=====

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

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

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

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

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

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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strtok_r, from Berkeley strtok
Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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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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2.13 ARM_NEON_2_x86_SSE (13)

created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation, victoria.zhislina@intel.com

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2.15 Blackmagic DeckLink SDK - Mac (15)

Extracted from mac/include/DeckLinkAPI.h:

```
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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)

```
/* liblouis Braille Translation and Back-Translation Library
```

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

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2.22 Cardboard SDK (22)

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

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1.1 The Android Software Development Kit (referred to in the License Agreement as the "SDK" and specifically including the Android system files, packaged APIs, and Google APIs add-ons) is licensed to you subject to the terms of the License Agreement. The License Agreement forms a legally binding contract between you and Google in relation to your use of the SDK.

1.2 "Android" means the Android software stack for devices, as made available under the Android Open Source Project, which is located at the following URL: <http://source.android.com/>, as updated from time to time.

1.3 A "compatible implementation" means any Android device that (i) complies with the Android Compatibility Definition document, which can be found at the Android compatibility website (<http://source.android.com/compatibility>) and which may be updated from time to time; and (ii) successfully passes the Android Compatibility Test Suite (CTS).

1.4 "Google" means Google LLC, a Delaware corporation with principal place of business at 1600 Amphitheatre Parkway, Mountain View, CA 94043, United States.

2. Accepting this License Agreement

2.1 In order to use the SDK, you must first agree to the License Agreement. You may not use the SDK if you do not accept the License Agreement.

2.2 By clicking to accept, you hereby agree to the terms of the License Agreement.

2.3 You may not use the SDK and may not accept the License Agreement if you are a person barred from receiving the SDK under the laws of the United States or other countries, including the country in which you are resident or from which you use the SDK.

2.4 If you are agreeing to be bound by the License Agreement on behalf of your employer or other entity, you represent and warrant that you have full legal authority to bind your employer or such entity to the License Agreement. If you do not have the requisite authority, you may not accept the License Agreement or use the SDK on behalf of your employer or other entity.

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3.1 Subject to the terms of the License Agreement, Google grants you a limited, worldwide, royalty-free, non-assignable, non-exclusive, and non-sublicensable license to use the SDK solely to develop applications for compatible implementations of Android.

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8. Using Android APIs

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8.1.1 If you use any API to retrieve data from Google, you acknowledge that the data may be protected by intellectual property rights which are owned by Google or those parties that provide the data (or by other persons or companies on their behalf). Your use of any such API may be subject to additional Terms of Service. You may not modify, rent, lease, loan, sell, distribute or create derivative works based on this data (either in whole or in part) unless allowed by the relevant Terms of Service.

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December 9, 2016

Play Core Software Development Kit:

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Last modified: September 24, 2020

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Android SDK:

ANDROID SOFTWARE DEVELOPMENT KIT

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8. Using Android APIs

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April 10, 2009

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2.35 d3 (35)

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2.36 dav1d is an AV1 decoder :) (36)

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2.37 dom-distiller-js (37)

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2.39 Eigen (39)

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December 9, 2016

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Last modified: September 24, 2020

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April 10, 2009

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December 9, 2016

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April 10, 2009

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2.45 firebase-iid-interop (45)

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December 9, 2016

Android SDK:

ANDROID SOFTWARE DEVELOPMENT KIT

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April 10, 2009

AndroidX activity library, AndroidX annotation library, AndroidX asynclayoutinflater library, AndroidX concurrent futures library, AndroidX core library, AndroidX

cursoradapter library, AndroidX documentfile library, AndroidX drawerlayout library, AndroidX fragment library, AndroidX legacy coreui library, AndroidX legacy v4 library, AndroidX print library, AndroidX slidingpanelayout library, AndroidX swiperefreshlayout library, AndroidX viewpager library:

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2.48 FP16 (48)

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2.51 getopt (51)

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December 9, 2016

2.53 Google Chrome Content Analysis Connector Agent SDK (53)

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2.56 google-glog's symbolization library (56)

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2.57 googleid (57)

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December 9, 2016

Android SDK Platforms:

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April 10, 2009

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2.58 Headers for DirectX APIs. (58)

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2.59 Headers for the Windows 10 WebAuthn API (webauthn.dll) (59)

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2.61 hyphenation-patterns (61)

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Language: Russian (ru RU).
Origin:   Based on the TeX hyphenation tables
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Author:   conversion author is Peter Novodvorsky <nidd@altlinux.ru>
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This hyphenation dictionary is based on syllable matching patterns and should be usable under other variations of Russian

HYPH ru RU hyph_ru_RU

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2.62 IAccessible2 COM interfaces for accessibility (62)

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2.64 inspector protocol (64)

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2.68 jsoncpp (68)

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2.69 jszip (69)

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2.70 Khronos header files (70)

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2.72 libavif - Library for encoding and decoding .avif files (72)

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Files: tests/cJSON.*

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2.73 libbriapi (73)

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2.74 libei (74)

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2.78 libpng (78)

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2.79 libsecret (79)

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2.89 Lottie Web (89)

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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

2.90 lottie_ios (90)

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2.94 minigbm (94)

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2.95 mitt (95)

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2.96 modp base64 decoder (96)

```
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* http://modp.com/release/base64
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2.101 newlib-extras (101)

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=====

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

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

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

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

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

More Documentation
 =====

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

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

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

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

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

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

Compiling NEWLIB
 =====

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

running `make` in each of these directories builds the `newlib` libraries specified there.

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

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

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

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

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

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

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

Specifying names for hosts and targets =====

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

ARCHITECTURE-VENDOR-OS

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

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

```
% sh config.sub sun4
sparc-sun-sunos4.1.1
% sh config.sub sun3
m68k-sun-sunos4.1.1
```

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

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

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

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

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

The options are shifted according to these correspondences:

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

`configure' options
=====

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

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

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

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

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

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

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

directories below PATH.

``--norecursion'`

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

``--target=TARGET'`

Configure NEWLIB for running on the specified TARGET.

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

``HOST ...'`

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

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

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

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

``--enable-newlib-io-pos-args'`

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

``--enable-newlib-io-c99-formats'`

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

``--enable-newlib-register-fini'`

Enable finalization function registration using `atexit`.
Disabled by default.

``--enable-newlib-io-long-long'`

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

``--enable-newlib-io-long-double'`

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

``--enable-newlib-mb'`

Enable multibyte support.
Disabled by default.

``--enable-newlib-iconv-encodings'`

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

``--enable-newlib-iconv-from-encodings'`

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

``--enable-newlib-iconv-to-encodings'`

Enable specific comma-separated list of `"to"` iconv encodings to be built-in.

Disabled by default.

`--enable-newlib-iconv-external-ccs'

Enable capabilities to load external CCS files for iconv.
Disabled by default.

`--disable-newlib-atexit-dynamic-alloc'

Disable dynamic allocation of atexit entries.
Most hosts and targets have it enabled in configure.host.

`--enable-newlib-reent-small'

Enable small reentrant struct support.
Disabled by default.

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

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

`--disable-newlib-fseek-optimization'

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

`--disable-newlib-wide-orient'

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

`--enable-newlib-nano-malloc'

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

`--disable-newlib-unbuf-stream-opt'

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

`--enable-multilib'

Build many library versions.
Enabled by default.

`--enable-target-optspace'

Optimize for space.
Disabled by default.

`--enable-malloc-debugging'

Indicate malloc debugging requested.
Disabled by default.

`--enable-newlib-multithread'

Enable support for multiple threads.
Enabled by default.

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

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

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

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

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

Running the Testsuite
=====

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

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

Here is a sample `site.exp`:

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

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

global target_list
case "$target_triplet" in {

  { "mips-*elf*" } {
    set target_list "mips-sim"
  }

  default {
    set target_list { "unix" }
  }
}
```

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

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

Shared newlib
=====

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

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

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

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

To compile a program against shared newlib, do the following (where `target_install_dir = $(install_dir)/i[34567]86-pc-linux-gnu`):

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

To run the program, make sure that `$(target_install_dir)/lib` is listed in the `LD_LIBRARY_PATH` environment variable.

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

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

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

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

Regenerating Configuration Files =====

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

At the top level of newlib is the file: `acinclude.m4`. This file contains the definition of the `NEWLIB_CONFIGURE` macro which is used by all `configure.in` files in newlib. You will notice that each directory in newlib containing a `configure.in` file also contains an `aclocal.m4` file. This file is generated by issuing: `aclocal -I${relative_path_to_toplevel_newlib_dir} -I${relative_path_to_toplevel_src_dir}`. The first relative directory is to access `acinclude.m4`. The second relative directory is to access libtool information in the top-level `src` directory.

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

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

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

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

```
autoconf
```

from the newlib/libc/machine/arm directory.

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

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

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

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

```
automake --cygnus Makefile
```

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

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

from newlib/libc/machine/XXXX

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

Reporting Bugs
=====

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

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

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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2.109 play-services-auth-api-phone (109)

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December 9, 2016

Animal Sniffer:

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2.111 play-services-auth-blockstore (111)

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December 9, 2016

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December 9, 2016

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2.113 play-services-cast-framework (113)

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December 9, 2016

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2.114 play-services-clearcut (114)

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2.115 play-services-cloud-messaging (115)

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December 9, 2016

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

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December 9, 2016

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2.117 play-services-flags (117)

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2.118 play-services-iid (118)

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December 9, 2016

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2.120 play-services-location (120)

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December 9, 2016

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Files: kotlinc/lib/trove4j.jar

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December 9, 2016

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2.126 PSM (Private Set Membership) client side (126)

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2.127 Puffin deterministic deflate recompressor (127)

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```
qcms
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2.129 rapidhash (129)

```
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 * Copyright (C) 2024 Nicolas De Carli
 *
 * Based on 'wyhash', by Wang Yi <godspeed_china@yeah.net>
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*
* You can contact the author at:
* - rapidhash source repository: https://github.com/Nicoshev/rapidhash
*/

```

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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2.134 Simple Homomorphic Encryption Library with Lattices (134)

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2.135 simplejson (135)

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2.147 URL Pattern Library (147)

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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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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.

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

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

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2.150 V8 fork of fdlbm (150)

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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2.152 WebP image encoder/decoder (152)

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2.153 Wicked Good XPath (153)

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2.155 woff2 (155)

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2.156 x11proto (156)

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2.157 xdg-user-dirs (157)

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2.158 xnu (158)

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2.159 XZ Utils (159)

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```
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2.160 zlib (160)

version 1.2.12, March 27th, 2022

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2.161 zod (161)

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2.172 BlueOak-1.0.0 (172)

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Version 1.0.0

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2.177 ICU (177)

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2.181 bzip2-1.0.6 (181)

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