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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.

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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)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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2.13 ARM_NEON_2_x86_SSE (13)

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

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Extracted from mac/include/DeckLinkAPI.h:

```
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2.17 Braille Translation Library (17)

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

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2.23 C++ port of zxcvbn, an advanced password strength estimation library. (23)

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2.24 Cardboard SDK (24)

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2.26 Checker Util (26)

Checker Framework utilities

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```

2.28 CityHash (28)

```
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```
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2.30 Compact Language Detector v3 (30)

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2.31 core-common (31)

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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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April 10, 2009

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2.32 Crubit: C++/Rust Bidirectional Interop Tool (32)

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2.33 d3 (33)

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2.34 Darwin (34)

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2.35 dav1d is an AV1 decoder :) (35)

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2.36 divsufsort (36)

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2.37 dom-distiller-js (37)

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```

2.43 feature-delivery (43)

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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:

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April 10, 2009

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2.51 Google Android Annotations Library (51)

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December 9, 2016

2.52 Google Chrome Content Analysis Connector Agent SDK (52)

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2.56 Google Trust Services Recommended Roots (56)

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```

2.57 google-glog's symbolization library (57)

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2.58 GVR Android SDK (58)

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./test/schur_real.cpp
./test/prec_inverse_4x4.cpp
./test/smallvectors.cpp
./test/redux.cpp
./test/special_numbers.cpp
./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp

```

./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
./test/umeyama.cpp
./test/unalignedcount.cpp
./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp
./test/eigensolver_complex.cpp
./test/cholmod_support.cpp
./test/conjugate_gradient.cpp
./test/sparse.h
./test/simplicial_cholesky.cpp
./test/bicgstab.cpp
./test/dynalloc.cpp
./test/product_notemporary.cpp
./test/geo_hyperplane.cpp
./test/lu.cpp
./test/qr.cpp
./test/hessenberg.cpp
./test/sizeof.cpp
./test/main.h
./test/selfadjoint.cpp
./test/permutationmatrices.cpp
./test/superlu_support.cpp
./test/qtvector.cpp
./test/geo_homogeneous.cpp
./test/determinant.cpp
./test/array_reverse.cpp
./test/unalignedassert.cpp
./test/stdlist.cpp
./test/product_symm.cpp
./test/corners.cpp
./test/dontalign.cpp
./test/visitor.cpp

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./test/geo_alignedbox.cpp
./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/eigensolver_generalized_real.cpp
./test/umfpack_support.cpp
./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/array_replicate.cpp
./test/geo_parametrizedline.cpp
./test/eigen2/eigen2_unalignedassert.cpp
./test/eigen2/eigen2_prec_inverse_4x4.cpp
./test/eigen2/eigen2_alignedbox.cpp
./test/eigen2/eigen2_sparse_product.cpp
./test/eigen2/eigen2_meta.cpp
./test/eigen2/eigen2_nomalloc.cpp
./test/eigen2/eigen2_visitor.cpp
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./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_qr.cpp
./test/eigen2/eigen2_cwiseop.cpp
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./test/eigen2/eigen2_smallvectors.cpp
./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp
./test/eigen2/eigen2_hyperplane.cpp
./test/eigen2/eigen2_eigensolver.cpp
./test/eigen2/eigen2_linearstructure.cpp
./test/eigen2/eigen2_sizeof.cpp
./test/eigen2/eigen2_parametrizedline.cpp
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./test/eigen2/eigen2_basicstuff.cpp
./test/eigen2/gsl_helper.h
./test/eigen2/eigen2_dynalloc.cpp
./test/eigen2/eigen2_array.cpp
./test/eigen2/eigen2_map.cpp
./test/eigen2/main.h
./test/eigen2/eigen2_miscmatrices.cpp
./test/eigen2/eigen2_product_large.cpp
./test/eigen2/eigen2_first_aligned.cpp
./test/eigen2/eigen2_cholesky.cpp
./test/eigen2/eigen2_determinant.cpp
./test/eigen2/eigen2_sum.cpp
./test/eigen2/eigen2_inverse.cpp
./test/eigen2/eigen2_regression.cpp
./test/eigen2/eigen2_product_small.cpp
./test/eigen2/eigen2_qtvector.cpp
./test/eigen2/eigen2_sparse_vector.cpp
./test/eigen2/product.h
./test/eigen2/eigen2_sparse_basic.cpp
./test/eigen2/eigen2_bug_132.cpp
./test/array.cpp
./test/product_syrk.cpp
./test/commainitializer.cpp
./test/conservative_resize.cpp
./test/qr_colpivoting.cpp
./test/nullary.cpp
./test/bandmatrix.cpp
./test/pastix_support.cpp
./test/product.h
./test/block.cpp

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./test/vectorization_logic.cpp
./test/jacobi.cpp
./test/diagonal.cpp
./test/schur_complex.cpp
./test/sizeoverflow.cpp
./bench/BenchTimer.h
./bench/benchFFT.cpp
./bench/eig33.cpp
./bench/spbench/spbenchsolver.h
./bench/spbench/spbenchstyle.h
./lapack/complex_double.cpp
./lapack/cholesky.cpp
./lapack/lapack_common.h
./lapack/eigenvalues.cpp
./lapack/single.cpp
./lapack/lu.cpp
./lapack/complex_single.cpp
./lapack/double.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/binary_library.h
./demos/mix_eigen_and_c/example.c
./demos/mandelbrot/mandelbrot.cpp
./demos/mandelbrot/mandelbrot.h
./demos/opengl/icosphere.cpp
./demos/opengl/icosphere.h
./demos/opengl/camera.cpp
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./Eigen/src/Geometry/Quaternion.h
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./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h

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GL

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Component	Location	Primary Author	License
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Device drivers	src/mesa/drivers/*	See drivers	See drivers
Ext headers	include/GL/glext.h	SGI	SGI Free B
	include/GL/glxext.h		
GLUT	src/glut/	Mark Kilgard	Mark's copyright
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gradle

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```
*****
jpeg
*****
(extracted from src/README)
```

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libunwind

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libxcb

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libxml

Libxml2, an XML C Parser

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lodepng

LodePNG

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zlib

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mongoose

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objective_c/gtm_session_fetcher

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xmpmeta

xmpmeta. A fast XMP metadata parsing and writing library.

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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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2.62 IAccessible2 COM interfaces for accessibility (62)

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2.64 inspector protocol (64)

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2.71 libavif - Library for encoding and decoding .avif files (71)

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Files: tests/cJSON.*

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2.72 libb72 (72)

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2.73 libei (73)

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2.74 libevent (74)

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2.75 libFuzzer (75)

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2.76 libipp (76)

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2.77 libjingle XMPP and xmlite libraries (77)

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2.78 libpng (78)

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2.79 libsecret (79)

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That's all there is to it!

2.80 libutf (80)

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```
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2.86 Lottie Web (86)

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#####

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

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

2.87 lottie_ios (87)

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2.89 mesa_headers (89)

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2.90 minigbm (90)

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2.91 modp base64 decoder (91)

```
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* Version 1.3 -- 17-Mar-2006
* http://modp.com/release/base64
*
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2.94 Netscape Portable Runtime (NSPR) (94)

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2.96 newlib-extras (96)

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

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

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

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

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

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

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

More Documentation
=====

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

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

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

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

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

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

Compiling NEWLIB

=====

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

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

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

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

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

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

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

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

Specifying names for hosts and targets

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

ARCHITECTURE-VENDOR-OS

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

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

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

The Build, Host and Target Concepts in newlib

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

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

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

The options are shifted according to these correspondences:

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

'configure' options

Here is a summary of the `'configure'` options and arguments that are most often useful for building NEWLIB. `'configure'` also has several other

options not listed here.

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

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

'--help'

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

'--prefix=DIR'

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

'--exec-prefix=DIR'

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

'--srcdir=PATH'

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

'--norecursion'

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

'--target=TARGET'

Configure NEWLIB for running on the specified TARGET.

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

'HOST ...'

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

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

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

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

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

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

```

`--enable-newlib-nano-malloc'

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

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

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

`--enable-multilib'

Build many library versions.
Enabled by default.

`--enable-target-optspace'

Optimize for space.
Disabled by default.

`--enable-malloc-debugging'

Indicate malloc debugging requested.
Disabled by default.

`--enable-newlib-multithread'

Enable support for multiple threads.
Enabled by default.

`--enable-newlib-iconv'

Enable iconv library support.
Disabled by default.

`--enable-newlib-elix-level'

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

`--disable-newlib-io-float'

Disable printf/scanf family float support.
Enabled by default.

`--disable-newlib-supplied-syscalls'

Disable newlib from supplying syscalls.
Enabled by default.

`--enable-lite-exit'

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

Running the Testsuite

=====

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

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

Here is a sample site.exp:

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

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

```
global target_list
case "$target_triplet" in {

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

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

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

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

Shared newlib
=====

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

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

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

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

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

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

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

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

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

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

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

Regenerating Configuration Files
=====

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

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

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

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

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

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

```
autoconf
```

from the `newlib/libc/machine/arm` directory.

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

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

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

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

```
automake --cygnus Makefile
```

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

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

from `newlib/libc/machine/XXXX`

It is strongly advised that you use an adequate version of autotools.

For this latest release, the following were used: autoconf 2.68, aclocal 1.11.6, and automake 1.11.6.

Reporting Bugs =====

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

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

2.97 Omnibox Protos (97)

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```

2.98 One Euro Filter (98)

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2.99 opus (99)

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2.100OTS (OpenType Sanitizer) (100)

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2.101 Paul Hsieh's SuperFastHash (101)

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2.102 PFFFT: a pretty fast FFT. (102)

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2.103play-services-auth (103)

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December 9, 2016

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2.104play-services-auth-api-phone (104)

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December 9, 2016

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

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2.105play-services-base (105)

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December 9, 2016

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Version 1.1

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December 9, 2016

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December 9, 2016

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2.108play-services-cast-framework (108)

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December 9, 2016

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2.109play-services-clearcut (109)

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2.110play-services-cloud-messaging (110)

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December 9, 2016

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2.111play-services-flags (111)

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December 9, 2016

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2.113play-services-instantapps (113)

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December 9, 2016

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December 9, 2016

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2.115PLY (Python Lex-Yacc) (115)

PLY (Python Lex-Yacc)

Version 3.4

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2.118 PSM (Private Set Membership) client side (118)

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2.119 Puffin deterministic deflate recompressor (119)

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2.121pylint (121)

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2.122 Quick Color Management System (122)

qcms
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2.123re2 - an efficient, principled regular expression library (123)

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2.124Recurrent neural network for audio noise reduction (124)

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2.125Selenium Atoms (125)

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2.126 Simple Homomorphic Encryption Library with Lattices (126)

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2.127simplejson (127)

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2.132Swift toolchain (132)

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2.133Tamachiyomi (133)

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2.143URL Pattern Library (143)

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2.144url_parse (144)

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2.145v4l-utils (145)

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2.146V8 fork of fdlibm (146)

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2.149WebP image encoder/decoder (149)

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2.151 Windows Template Library (WTL) (151)

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2.152woff2 (152)

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2.153x11proto (153)

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2.155xdg-user-dirs (155)

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2.157zlib (157)

version 1.2.12, March 27th, 2022

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Julian Seward, jseward@bzip.org bzip2/libbzip2 version 1.0.6 of 6 September 2010

2.233WxWindows (233)

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