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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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1.2 zlib 1.2.3

1.2.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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*/

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1.3 libcap-ng 1.28.4-r1

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1.4 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.5 mpdecimal 2.4.2

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1.6 zlib 1.2.5

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1.7 zlib 1.2.11-r1

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1.8 pax-utils 1.2.3-r0

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```
/* implemented as luaL_typerror until lua 5.1, dropped in 5.2
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*/

```

Found in path(s):

```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/md5.h

```

No license file was found, but licenses were detected in source scan.

```

/* apk_archive.c - Alpine Package Keeper (APK)
*
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*
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* by the Free Software Foundation. See http://www.gnu.org/ for details.
*/

```

Found in path(s):

```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_archive.h

```

No license file was found, but licenses were detected in source scan.

```

/* fix.c - Alpine Package Keeper (APK)
*
* Copyright (C) 2005-2008 Natanael Copa <n@tanael.org>
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*/

```

Found in path(s):

```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/fix.c

```

No license file was found, but licenses were detected in source scan.

```

/* add.c - Alpine Package Keeper (APK)
*
* Copyright (C) 2005-2008 Natanael Copa <n@tanael.org>

```

```
* Copyright (C) 2008-2011 Timo Teräs <timo.teras@iki.fi>
* All rights reserved.
*
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*/
```

Found in path(s):

```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/add.c
```

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```
/* stats.c - Alpine Package Keeper (APK)
```

```
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*/
```

Found in path(s):

```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/stats.c
```

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```
/* update.c - Alpine Package Keeper (APK)
```

```
*
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```

Found in path(s):

```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/update.c
```

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```
/* apk_io.h - Alpine Package Keeper (APK)
```

```
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*/

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* \$FreeBSD: fetch.h,v 1.26 2004/09/21 18:35:20 des Exp \$

*/

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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/libfetch/fetch.h

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- *
- * \$FreeBSD: fetch.c,v 1.41 2007/12/19 00:26:36 des Exp \$
- */

Found in path(s):

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/libfetch/fetch.c

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 * \$FreeBSD: file.c,v 1.18 2007/12/14 10:26:58 des Exp \$
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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/libfetch/file.c

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/* audit.c - Alpine Package Keeper (APK)

*

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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/audit.c

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/* hash.c - Alpine Package Keeper (APK)

*

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*/

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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/hash.c

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/* list.c - Alpine Package Keeper (APK)

*
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 * Copyright (C) 2018 William Pitcock <nenolod@dereferenced.org>
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 */

Found in path(s):

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 *
 * \$FreeBSD: common.c,v 1.53 2007/12/19 00:26:36 des Exp \$
 */

Found in path(s):

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/libfetch/common.c
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```
/* cache.c - Alpine Package Keeper (APK)
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*/
```

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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/cache.c
No license file was found, but licenses were detected in source scan.

```
/* commit.c - Alpine Package Keeper (APK)
* Apply solver calculated changes to database.
*
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```

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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/commit.c
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```
/* info.c - Alpine Package Keeper (APK)
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Found in path(s):
* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/info.c
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```
/* apk_package.h - Alpine Package Keeper (APK)
*
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```

Found in path(s):

```
* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_package.h
```

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```
/* template.c - Alpine Package Keeper (APK)
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Found in path(s):

```
* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/template.c
```

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```
/* package.c - Alpine Package Keeper (APK)
*
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```

Found in path(s):

```
* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/package.c
```

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```
/* apk_applet.h - Alpine Package Keeper (APK)
*
* Copyright (C) 2005-2008 Natanael Copa <n@tanael.org>
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*/
```

Found in path(s):

```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_applet.h
```

No license file was found, but licenses were detected in source scan.

```
/* common.c - Alpine Package Keeper (APK)
```

```
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```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/common.c
```

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```
/* apk_blob.h - Alpine Package Keeper (APK)
```

```
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```

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```
*/apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_blob.h
```

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```
/* version.c - Alpine Package Keeper (APK)
```

```
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* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/version.c

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/* apk_version.h - Alpine Package Keeper (APK)

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Found in path(s):

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_version.h

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/* dot.c - Alpine Package Keeper (APK)

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/* gunzip.c - Alpine Package Keeper (APK)

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/* apk_defines.c - Alpine Package Keeper (APK)

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/* apk_solver.h - Alpine Package Keeper (APK)

*

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/* apk_solver_data.h - Alpine Package Keeper (APK)

```

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```

Found in path(s):

```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/apk_solver_data.h
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```

/* fetch.c - Alpine Package Keeper (APK)
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```

Found in path(s):

```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/fetch.c
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```

```

/* index.c - Alpine Package Keeper (APK)
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```

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```

* /apk-tools-2-10-0-1-tar-bz2/apk-tools-2.10.0/src/index.c
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```

```

/* ver.c - Alpine Package Keeper (APK)
*
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/* verify.c - Alpine Package Keeper (APK)

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```
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1.13 expat 2.2.7

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1.14 tre 1.1.19-r11

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1.15 log-rotate 3.14.0

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Version 3, 29 June 2007

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1.17 musl 1.1.19-r10

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src/math/lgamma_r.c
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src/math/exp.c
src/math/erf.c
src/math/erff.c
src/math/cosf.c
src/math/cos.c
src/math/cbrt*.c
src/math/atanl.c
src/math/atanf.c
src/math/atan2*.c
src/math/atan.c
src/math/asinl.c
src/math/asinf.c
src/math/asin.c
src/math/acosl.c
src/math/acosf.c
src/math/acos.c
src/math/__tan*.c
src/math/__sin*.c
src/math/__rem*.c
src/math/__cos*.c

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src/setjmp/x32/setjmp.s

src/setjmp/x86_64/longjmp.s

src/setjmp/x86_64/setjmp.s

src/thread/x32/__set_thread_area.s

src/thread/x32/__unmapself.s

src/thread/x86_64/__set_thread_area.s

src/thread/x86_64/__unmapself.s

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Files: arch/mips64/*

src/*/mips64/*

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Files: src/string/arm/memcpy_le.S

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1.18 curl 7.65.3

1.18.1 Available under license :

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=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

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Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

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zlib

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libssh2

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1.19 busybox 1.28.4-r1

1.19.1 Available under license :

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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1.20 python 3.7.4

1.20.1 Available under license :

```
.. highlightlang:: none
```

```
.. _history-and-license:
```

```
*****
History and License
*****
```

History of the software

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://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 <https://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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

All Python releases are Open Source (see <https://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	Derived from	Year	Owner	GPL compatible?
0.9.0 thru 1.2	n/a	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	no
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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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The `:mod:`socket``

module uses the functions, `:func:`getaddrinfo``, and

`:func:`getnameinfo``, which are coded in separate source files from the WIDE
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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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`test_epoll`

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cfuhash

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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The :mod:`\_decimal` module is built using an included copy of the libmpdec library unless the build is configured ``--with-system-libmpdec``:

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=====

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

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

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

All

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Release	Derived from	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		
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1.21 pcre 10.33

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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,

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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.

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.

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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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- 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.

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- 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

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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.

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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

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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1999/4/25 sgk C

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1999/6/?? Unicode

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original

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will not be affected by problems that might be
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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 `GNU 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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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.)
@end enumerate

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

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@subheading END OF TERMS AND CONDITIONS

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@subheading How to Apply These Terms to Your New Libraries

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@heading Appendix: How to Apply These Terms to Your New Programs

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and a brief idea of what it does.}
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when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

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Version 3, 29 June 2007

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1.28 nginx 1.14.2

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1.29 musl 1.1.19-r11

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1.30 oniguruma 6.9.0

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1.31 zlib 1.2.11

1.31.1 Available under license :

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

1.32 libxml 2.9.2

1.32.1 Available under license :

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