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[acl]

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[alsa-lib]

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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[bzip2]

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

[contrack-tools]

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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[curl]

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=====

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axTLS <http://axtls.sourceforge.net/>

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c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

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libssh2 <http://www.libssh2.org/>

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<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>
```

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```
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This is free software, and you are welcome to redistribute it  
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```

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```
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```



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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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[ddclient]

ddclient - update client for www.dyndns.org accounts

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```

```
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Theodore Ts'o
23-June-2007

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```

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```

```
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[gcc]

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[glib]

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[gnutls]

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If distribution of object code is made by offering access to copy

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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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```
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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

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Version 3, 29 June 2007

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TERMS AND CONDITIONS

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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[init-ifupdown]

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<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

```
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[libnetfilter_contrack]

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```
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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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[libnfnetlink]

[libnfnetlink-1.0.0/ src/ iftable.c]

/* iftable - table of network interfaces

*

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* (C) 2008 by Pablo Neira Ayuso <pablo@netfilter.org>

*

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*/

[libnfnetlink-1.0.0/ src/ libnfnetlink.c]

/* libnfnetlink.c: generic library for communication with netfilter

*

* (C) 2002-2006 by Harald Welte <laforge@gnumonks.org>

* (C) 2006 by Pablo Neira Ayuso <pablo@netfilter.org>

*

* Based on some original ideas from Jay Schulist <jschlst@samba.org>

*

* Development of this code funded by Astaro AG (<http://www.astaro.com>)

*

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*

* 2005-09-14 Pablo Neira Ayuso <pablo@netfilter.org>:

* Define structure nfnlhdr

* Added __be64_to_cpu function

* Use NFA_TYPE macro to get the attribute type

*

* 2006-01-14 Harald Welte <laforge@netfilter.org>:

* introduce nfnl_subsys_handle

*

* 2006-01-15 Pablo Neira Ayuso <pablo@netfilter.org>:

* set missing subsys_id in nfnl_subsys_open

* set missing nfnlh->local.nl_pid in nfnl_open

*

* 2006-01-26 Harald Welte <laforge@netfilter.org>:

* remove bogus nfnlh->local.nl_pid from nfnl_open ;)

* add 16bit attribute functions

```
*
* 2006-07-03 Pablo Neira Ayuso <pablo@netfilter.org>:
* add iterator API
* add replacements for nfnl_listen and nfnl_talk
* fix error handling
* add assertions
* add documentation
* minor cleanups
*/
```

```
[libnfnetlink-1.0.0/ src/ rtnl.c]
/* rtnl - rtnetlink utility functions
```

```
*
* (C) 2004 by Astaro AG, written by Harald Welte <hwelte@astaro.com>
*
* Adapted to nfnetlink by Eric Leblond <eric@inl.fr>
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*
*/
```

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If distribution of object code is made by offering access to copy

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```
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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

[libpcap]

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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A "png_get_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson
glennrp at users.sourceforge.net
April 25, 2013

[libtasn1]

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Version 2.1, February 1999

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Version 3, 29 June 2007

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[libtool]

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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.)

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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. Section 6 states terms for distribution of such executables.

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

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

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

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

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- 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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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

[libusb-compat]

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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 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

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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.

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If distribution of object code is made by offering access to copy

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[libxml2]

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```
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```
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```

```
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[miniupnpd]

MiniUPnPd

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[mtd-utils]

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```

```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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[perl]

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```

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```
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[pkg-config]

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ppp-2.4.5/ include/ net/ slcompress.h

ppp-2.4.5/ modules/ vjcompress.c

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* Original version by James Carlson

*

- * This implementation of EAP supports MD5-Challenge and SRP-SHA1
- * authentication styles. Note that support of MD5-Challenge is a
- * requirement of RFC 2284, and that it's essentially just a
- * reimplementaion of regular RFC 1994 CHAP using EAP messages.
- *
- * As an authenticator ("server"), there are multiple phases for each
- * style. In the first phase of each style, the unauthenticated peer
- * name is queried using the EAP Identity request type. If the
- * "remotename" option is used, then this phase is skipped, because
- * the peer's name is presumed to be known.
- *
- * For MD5-Challenge, there are two phases, and the second phase
- * consists of sending the challenge itself and handling the
- * associated response.
- *
- * For SRP-SHA1, there are four phases. The second sends 's', 'N',
- * and 'g'. The reply contains 'A'. The third sends 'B', and the
- * reply contains 'M1'. The fourth sends the 'M2' value.
- *
- * As an authenticatee ("client"), there's just a single phase --
- * responding to the queries generated by the peer. EAP is an
- * authenticator-driven protocol.

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- * Updated to ppp-2.4.1 by Bernhard Kaindl
- *
- * Updated to ppp-2.4.2 by David Woodhouse 2004.
- * - disconnect method added
- * - remove_options() abuse removed.
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*/

/*

* Modifications by Lauri Pesonen / lpesonen@clinet.fi, april 1997

*

* Implemented LANManager type password response to MS-CHAP challenges.

* Now pppd provides both NT style and LANMan style blocks, and the
* preferred is set by option "ms-lanman". Default is to use NT.

* The hash text (StdText) was taken from Win95 RASAPI32.DLL.

*

* You should also use DOMAIN\USERNAME as described in README.MSCHAP80

*/

/*

* Modifications by Frank Cusack, frank@google.com, March 2002.

*

* Implemented MS-CHAPv2 functionality, heavily based on sample

* implementation in RFC 2759. Implemented MPPE functionality,

* heavily based on sample implementation in RFC 3079.

*

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- * from 2.6.23 onwards. For earlier kernels, a version can be obtained
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- * <http://www.sourceforge.net/projects/openl2tp/>
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*

* Original version by James Carlson

*

* Usage:

*

srp-entry [-i index] [clientname]

*

* Index, if supplied, is the modulus/generator index from
* /etc/tpasswd.conf. If not supplied, then the last (highest
* numbered) entry from that file is used. If the file doesn't exist,
* then the default "well known" EAP SRP-SHA1 modulus/generator is
* used.

*

* The default modulus/generator can be requested as index 0.

ppp-2.4.5/ pppd/ tdb.c

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[pugixml]

pugixml 1.4 - an XML processing library

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This is the distribution of pugixml, which is a C++ XML processing library, which consists of a DOM-like interface with rich traversal/modification capabilities, an extremely fast XML parser which constructs the DOM tree from an XML file/buffer, and an XPath 1.0 implementation for complex data-driven tree queries. Full Unicode support is also available, with Unicode interface variants and conversions between different Unicode encodings (which happen automatically during parsing/saving).

The distribution contains the following folders:

contrib/ - various contributions to pugixml

docs/ - documentation

docs/samples - pugixml usage examples

docs/quickstart.html - quick start guide

docs/manual.html - complete manual

scripts/ - project files for IDE/build systems

src/ - header and source files

readme.txt - this file.

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[Python]

A. HISTORY OF THE SOFTWARE

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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 (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://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 <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 | 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 |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7 | 2.6 | 2010 | PSF | yes |

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[RADVD]

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[readline]

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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[rtsp-linux]

[rtsp-linux-3.7/ nf_conntrack_rtsp.c]

* RTSP extension for IP connection tracking

* (C) 2003 by Tom Marshall <tmarshall at real.com>

* based on ip_conntrack_irc.c

*

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[rtsp-linux-3.7/ nf_nat_rtsp.c]

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[rtsp-linux-3.7/ nf_conntrack_rtsp.h]

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[sysfsutils]

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[sysklogd]

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```

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```
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```
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```

```
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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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```
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Ty Coon, President of Vice
```

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[tcpdump]

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```
[tcpdump-4.1.1/ win32/ Include/ getopt.h]
```

```
/* Declarations for getopt.
```

```
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```

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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.)

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That's all there is to it!

[usbutils]

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[wireless_tools]

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[zlib]

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.8 is a general purpose data compression library. All the code is thread safe. 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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.8 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option `-std1` is necessary to get `gzprintf` working correctly. This is done by `configure`.
- zlib doesn't work on HP-UX 9.05 with some versions of `/bin/cc`. It works with other compilers. Use "make test" to check your compiler.
- `gzdopen` is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Mark Adler
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[AFNetworking]

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[CocoaAsyncSocket]

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[MGSwipeTableCell]

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[RoutingHTTPServer]

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[glide]

Glide
=====

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| [\[View Glide's documentation\]\[20\]](#) | [\[简体中文文档\]\[22\]](#) | [\[Report an issue with Glide\]\[5\]](#)

Glide is a fast and efficient open source media management and image loading framework for Android that wraps media decoding, memory and disk caching, and resource pooling into a simple and easy to use interface.

Glide supports fetching, decoding, and displaying video stills, images, and animated GIFs. Glide includes a flexible API that allows developers to plug in to almost any network stack. By default Glide uses a custom `URLConnection` based stack, but also includes utility libraries plug in to Google's Volley project or Square's OkHttp library instead.

Glide's primary focus is on making scrolling any kind of a list of images as smooth and fast as possible, but Glide is also effective for almost any case where you need to fetch, resize, and display a remote image.

Download

For detailed instructions and requirements, see Glide's [\[download and setup docs page\]\[28\]](#).

You can download a jar from GitHub's [\[releases page\]\[1\]](#).

Or use Gradle:

```
```gradle
repositories {
 mavenCentral()
 google()
}

dependencies {
 implementation 'com.github.bumptech.glide:glide:4.10.0'
 annotationProcessor 'com.github.bumptech.glide:compiler:4.10.0'
}
```
```

Or Maven:

```
```xml
<dependency>
 <groupId>com.github.bumptech.glide</groupId>
 <artifactId>glide</artifactId>
 <version>4.10.0</version>
</dependency>
<dependency>
 <groupId>com.github.bumptech.glide</groupId>
 <artifactId>compiler</artifactId>
 <version>4.10.0</version>
 <optional>true</optional>
</dependency>
```
```

For info on using the bleeding edge, see the [\[Snapshots\]\[17\]](#) docs page.

ProGuard

Depending on your ProGuard (DexGuard) config and usage, you may need to include the following lines in your proguard.cfg (see the [\[Download and Setup docs page\]\[25\]](#) for more details):

```
```pro
-keep public class * implements com.bumptech.glide.module.GlideModule
-keep public class * extends com.bumptech.glide.module.AppGlideModule
```
```



```
-keep public enum com.bumptech.glide.load.ImageHeaderParser$** {  
    **[] $VALUES;  
    public *;  
}
```

for DexGuard only

```
-keepresourceelements manifest/application/meta-data@value=GlideModule  
...
```

How do I use Glide?

Check out the [\[documentation\]\[20\]](#) for pages on a variety of topics, and see the [\[javadocs\]\[3\]](#).

For Glide v3, see the [\[wiki\]\[2\]](#).

Simple use cases will look something like this:

```
```java  
// For a simple view:
@Override public void onCreate(Bundle savedInstanceState) {
 ...
 ImageView imageView = (ImageView) findViewById(R.id.my_image_view);

 Glide.with(this).load("http://goo.gl/gEgYUd").into(imageView);
}

// For a simple image list:
@Override public View getView(int position, View recycled, ViewGroup container) {
 final ImageView myImageView;
 if (recycled == null) {
 myImageView = (ImageView) inflater.inflate(R.layout.my_image_view, container, false);
 } else {
 myImageView = (ImageView) recycled;
 }

 String url = myUrls.get(position);

 Glide
 .with(myFragment)
 .load(url)
```

```
.centerCrop()
.placeholder(R.drawable.loading_spinner)
.into(myImageView);

return myImageView;
}
...
```

## Status

-----

Version 4 is now released and stable. Updates are released periodically with new features and bug fixes.

Comments/bugs/questions/pull requests are always welcome! Please read [\[CONTRIBUTING.md\]\[5\]](#) on how to report issues.

## Compatibility

-----

\* **Minimum Android SDK**: Glide v4 requires a minimum API level of 14.

\* **Compile Android SDK**: Glide v4 requires you to compile against API 26 or later.

If you need to support older versions of Android, consider staying on [\[Glide v3\]\[14\]](#), which works on API 10, but is not actively maintained.

\* **OkHttp 3.x**: There is an optional dependency available called `okhttp3-integration`, see the [\[docs page\]\[23\]](#).

\* **Volley**: There is an optional dependency available called `volley-integration`, see the [\[docs page\]\[24\]](#).

\* **Round Pictures**: `CircleImageView`/`CircularImageView`/`RoundedImageView` are known to have [\[issues\]\[18\]](#) with `TransitionDrawable` (`.crossFade()` with `.thumbnail()` or `.placeholder()`) and animated GIFs, use a `[BitmapTransformation][19]` (`.circleCrop()` will be available in v4) or `.dontAnimate()` to fix the issue.

\* **Huge Images** (maps, comic strips): Glide can load huge images by downsampling them, but does not support zooming and panning `ImageView`'s as they require special resource optimizations (such as tiling) to work without `OutOfMemoryError`'s.

## Build

-----

Building Glide with gradle is fairly straight forward:

```
```shell
git clone https://github.com/bumptech/glide.git
cd glide
./gradlew jar
```
```

**\*\*Note\*\*:** Make sure your *Android SDK* has the *Android Support Repository* installed, and that your `$ANDROID_HOME` environment variable is pointing at the SDK or add a `local.properties` file in the root project with a `sdk.dir=...` line.

## Samples

-----

Follow the steps in the [Build](#build) section to set up the project and then:

```
```shell
./gradlew :samples:flickr:run
./gradlew :samples:giphy:run
./gradlew :samples:svg:run
./gradlew :samples:contacturi:run
```
```

You may also find precompiled APKs on the [releases page][1].

## Development

-----

Follow the steps in the [Build](#build) section to setup the project and then edit the files however you wish.

[Android Studio][26] cleanly imports both Glide's source and tests and is the recommended way to work with Glide.

To open the project in Android Studio:

1. Go to *File* menu or the *Welcome Screen*
2. Click on *Open...*
3. Navigate to Glide's root directory.
4. Select `setting.gradle`

For more details, see the [Contributing docs page][27].



## Getting Help

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To report a specific problem or feature request, [open a new issue on Github][5]. For questions, suggestions, or anything else, email [Glide's discussion group][6], or join our IRC channel: [irc.freenode.net#glide-library][13].

## Contributing

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Before submitting pull requests, contributors must sign Google's [individual contributor license agreement][7].

## Thanks

-----

- \* The **Android team** and **Jake Wharton** for the [disk cache implementation][8] Glide's disk cache is based on.
- \* **Dave Smith** for the [GIF decoder gist][9] Glide's GIF decoder is based on.
- \* **Chris Banes** for his [gradle-mvn-push][10] script.
- \* **Corey Hall** for Glide's [amazing logo][11].
- \* Everyone who has contributed code and reported issues!

## Author

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Sam Judd - @sjudd on GitHub, @samajudd on Twitter

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[1]: <https://github.com/bumptech/glide/releases>

[2]: <https://github.com/bumptech/glide/wiki>

[3]: <https://bumptech.github.io/glide/ref/javadocs.html>

[4]: <https://www.jetbrains.com/idea/download/>

[5]: <https://github.com/bumptech/glide/blob/master/CONTRIBUTING.md>

[6]: <https://groups.google.com/forum/#!forum/glidelibrary>

[7]: <https://developers.google.com/open-source/cla/individual>

- [8]: <https://github.com/JakeWharton/DiskLruCache>
- [9]: <https://gist.github.com/devunwired/4479231>
- [10]: <https://github.com/chrisbanes/gradle-mvn-push>
- [11]: [static/glide\\_logo.png](#)
- [12]: <https://github.com/bumptech/glide/wiki/Integration-Libraries>
- [13]: <http://webchat.freenode.net/?channels=glide-library>
- [14]: <https://github.com/bumptech/glide/tree/3.0>
- [15]: <https://github.com/bumptech/glide/tree/master>
- [16]: <https://github.com/bumptech/glide/blob/master/LICENSE>
- [17]: <http://bumptech.github.io/glide/dev/snapshots.html>
- [18]:  
[https://github.com/bumptech/glide/issues?q=is%3Aissue+CircleImageView+OR+CircularImageV  
iew+OR+RoundedImageView](https://github.com/bumptech/glide/issues?q=is%3Aissue+CircleImageView+OR+CircularImageV<br/>iew+OR+RoundedImageView)
- [19]: <https://github.com/wasabeef/glide-transformations>
- [20]: <https://bumptech.github.io/glide/>
- [22]: <https://muyangmin.github.io/glide-docs-cn/>
- [23]: <http://bumptech.github.io/glide/int/okhttp3.html>
- [24]: <http://bumptech.github.io/glide/int/volley.html>
- [25]: <http://bumptech.github.io/glide/doc/download-setup.html#proguard>
- [26]: <https://developer.android.com/studio/index.html>
- [27]: <http://bumptech.github.io/glide/dev/contributing.html>
- [28]: <http://bumptech.github.io/glide/doc/download-setup.html>



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NEUQUANT Neural-Net quantization algorithm by Anthony Dekker, 1994. See "Kohonen neural networks for optimal colour quantization" in "Network: Computation in Neural Systems" Vol. 5 (1994) pp 351-367. for a discussion of the algorithm.

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## [gson]

### # Gson

Gson is a Java library that can be used to convert Java Objects into their JSON representation. It can also be used to convert a JSON string to an equivalent Java object.

Gson can work with arbitrary Java objects including pre-existing objects that you do not have source-code of.

There are a few open-source projects that can convert Java objects to JSON. However, most of them require that you place Java annotations in your classes; something that you can not do if you do not have access to the source-code. Most also do not fully support the use of Java Generics. Gson considers both of these as very important design goals.

### ### Goals

- \* Provide simple `toJson()` and `fromJson()` methods to convert Java objects to JSON and vice-versa
- \* Allow pre-existing unmodifiable objects to be converted to and from JSON
- \* Extensive support of Java Generics
- \* Allow custom representations for objects
- \* Support arbitrarily complex objects (with deep inheritance hierarchies and extensive use of generic types)

### ### Download

Gradle:

```
``gradle
dependencies {
 implementation 'com.google.code.gson:gson:2.8.6'
}
...

```

Maven:

```
``xml
<dependency>
 <groupId>com.google.code.gson</groupId>
 <artifactId>gson</artifactId>
 <version>2.8.6</version>
</dependency>

```

...

[Gson jar  
downloads](<https://maven-badges.herokuapp.com/maven-central/com.google.code.gson/gson>)  
are available from Maven Central.

[Build  
Status](<https://travis-ci.org/google/gson.svg?branch=master>)(<https://travis-ci.org/google/gson>)

### ### Documentation

- \* [API Javadoc](<https://www.javadoc.io/doc/com.google.code.gson/gson>): Documentation for the current release

- \* [User guide](<https://github.com/google/gson/blob/master/UserGuide.md>): This guide contains examples on how to use Gson in your code.

- \* [Change log](<https://github.com/google/gson/blob/master/CHANGELOG.md>): Changes in the recent versions

- \* [Design document](<https://github.com/google/gson/blob/master/GsonDesignDocument.md>): This document discusses issues we faced while designing Gson. It also includes a comparison of Gson with other Java libraries that can be used for Json conversion

Please use the 'gson' tag on StackOverflow or the [google-gson Google group](<https://groups.google.com/group/google-gson>) to discuss Gson or to post questions.

### ### Related Content Created by Third Parties

- \* [Gson Tutorial](<http://www.studytrails.com/java/json/java-google-json-introduction.jsp>) by `StudyTrails`

- \* [Gson Tutorial Series](<https://futurestud.io/tutorials/gson-getting-started-with-java-json-serialization-deserialization>) by `Future Studio`

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## [xutils]

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