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```
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```

```
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```
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```

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## 1.6 bc 1.06 :10

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```

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

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```
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```

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```
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```

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

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

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline



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## 1.13 cups 1.1.23

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## 1.14 cupslib 1.1.23

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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#### Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the 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!

## 1.15 curl 7.20.1

### 1.15.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

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[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (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[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgp-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

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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](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

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

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GNU GSS <http://www.gnu.org/software/gss/>

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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.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if

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OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

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## 1.17 db3 3.1.17 :7

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```
/*_  
* $Id: LICENSE,v 11.6 2000/02/14 02:59:37 bostic Exp $  
*/
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```

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Theodore Ts'o  
15-Mar-2003

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Keith Packard wrote the pcf driver found in XFree86. His work is at the same time the specification and the sample implementation of the PCF format. Undoubtedly, this driver is inspired from his work.

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```
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## 1.35 glib 2.24.0

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\*

\* Updated by Jeremy Bettis <jeremy@hksys.com>

\* Significantly revised and rewinddir, seekdir and telldir added by Colin

\* Peters <colin@fu.is.saga-u.ac.jp>

\*

\*/

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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.

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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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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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That's all there is to it!

/\* PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Written by Philip Hazel  
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\*/



# 1.36 glibc 2.2.4

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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.

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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.

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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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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.

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## 1.37 grep 2.4.2 :5

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```
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```
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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
```



Ty Coon, President of Vice

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## 1.51 JfreeChart 0.9.21 :1

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## 1.52 kernprof 1.4

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```

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```
@smallexample
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/g_inquire_names.c
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## 1.60 libjpeg 6b :19

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```
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```
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```

```
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## 1.66 linux kernel 2.6.23

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```

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## 1.72 Izma 4.32

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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

Ty Coon, President of Vice

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 */
```

## 1.76 module-init-tools 3.2pre1 :4.0.1.0801182



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43. [47]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. [48]Michael Shields <shields@tembel.org> USNO clock driver
45. [49]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
47. [51]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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## 1.90 openldap 2.0.27

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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

```
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# 1.96 perl 5.6.0 :12

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# 1.97 perl-XML-DOM 1.25 :10

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Perl module: XML::DOM

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This is a Perl extension to XML::Parser. It adds a new 'Style' to XML::Parser, called 'Dom', that allows XML::Parser to build an Object Oriented datastructure with a DOM Level 1 compliant interface.

For a description of the DOM (Document Object Model), see <http://www.w3.org/DOM/>

XML::Parser is a Perl extension interface to James Clark's XML parser, expat. It requires at least version 5.004 of perl and can be found on CPAN.

The documentation for the XML::DOM extension can be found in pod format at the end of the file DOM.pm.

This is a beta version and although there will not be any major API changes, minor changes may occur as we get feedback from the people on the perl-xml mailing list. [You can subscribe to this list by sending a message to [subscribe-perl-xml@lyris.activestate.com](mailto:subscribe-perl-xml@lyris.activestate.com).]

For bug reports or suggestions send email to [enno@att.com](mailto:enno@att.com) (NOT to Clark Cooper!)

To configure this module, cd to the directory that contains this README file and type the following.

```
perl Makefile.PL
```

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

```
perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl
```

Then to build you run make.

```
make
```

You can then test the module by typing:

```
make test
```

If you have write access to the perl library directories, you may then

install by typing:

```
make install
```

Enno Derksen  
enno@att.com

## 1.98 perl-XML-Parser 2.30

### 1.98.1 Available under license :

XML::Parser Version 2.30

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This is a Perl extension interface to James Clark's XML parser, expat. It requires at least version 5.004 of perl and it requires that you have release 1.95.0 or greater of expat installed. You can download expat from:

<http://sourceforge.net/projects/expat/>

The documentation for this extension can be found in pod format at the end of the files Parser.pm and Expat/Expat.pm. The perldoc program, provided with the perl distribution, can be used to view this documentation.

This was modified from the original XML::Parser created by Larry Wall.

To configure this module, cd to the directory that contains this README file and type the following:

```
perl Makefile.PL
```

Alternatively, if you plan to install XML::Parser somewhere other than your system's perl library directory. You can type something like this:

```
perl Makefile.PL PREFIX=/home/me/perl INSTALLDIRS=perl
```

Then to build you run make.

```
make
```

You can then test the module by typing:

```
make test
```

There are some sample utilities in the samples directory along with an xml form of the XML specification to test them on. You may need to change the '#' line at the top of these utilities to what is appropriate for your system. If you're going to play around with them prior to installing the module, you would need to add the blib paths to your perl search path, like this (assuming your current directory is samples):

```
perl -I../blib/lib -I../blib/arch xmlcomments REC-xml-19980210.xml
```

or set your PERLLIB environment variable.

If you have write access to the installation directories, you may then install by typing:

```
make install
```

Discussion on features and bugs of this software and general discussion on topics relating to perl and XML takes place on the perl-xml mailing list, to which you can subscribe by sending mail to:

```
subscribe-perl-xml@lyris.activestate.com
```

Differences from Version 2.29

=====

Expat is no longer included with this package. It must now be already installed on your system as a library. You may download the library version of expat from <http://sourceforge.net/projects/expat/>. After downloading, expat must be configured (an automatic script does this), built and installed.

A workaround has been provided for those people who couldn't compile Expat.xs with a perl 5.6.0 with USE\_5005THREADS on.

A bug that prevented IO::Handler from being read by the parse method has been fixed.

Fixed a bug in reading external entities with incremental parsing.

Clark Cooper  
coopercc@netheaven.com  
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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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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

## 1.99 popt 1.6.2 :8

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```

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

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Ty Coon, President of Vice

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## 1.104 Prototype JS 1.7 :1

### 1.104.1 Available under license :

```
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 *
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```

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```

```
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- \*/

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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## 1.111 sdparm 0.90

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## 1.112 sed 3.0.2 :9

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## 1.113 sg3\_utils 1.15

### 1.113.1 Available under license :

README for sg3\_utils

=====

Introduction

=====

This package contains utilities for the Linux SCSI subsystem. In the Linux 2.6 kernel series almost all of these programs will work on any devices that use the SCSI command set. Apart from SCSI parallel devices, ATAPI devices (CD/DVDs and tapes), USB mass storage devices, Fibre Channel disks and IEEE 1394 storage devices (that use the "SBP" protocol) use the SCSI command set.

Most utilities within the `sg3_utils` package work at the SCSI command level. For example the `sg_inq` utility issues a SCSI INQUIRY command and decodes the response. To view the relationship between the `sg3_utils`' utility and the main SCSI command(s) that it issues see the `COVERAGE` file. The only utilities that interface at a slightly higher level are `sg_dd`, `sgm_dd` and `sgp_dd`. These are closely related to the Unix `dd` command and typically issue a sequence of SCSI READ and WRITE commands to copy data.

Description

=====

A web site supporting the `sg3_utils` package, its predecessor `sg_utils`,

and the Linux SCSI generic driver (and the `scsi_debug` driver) can be found at <http://www.torque.net/sg> . The most recent release version of `sg3_utils` and the most recent beta is on that page. There is also a page describing the utilities in the `sg3_utils` and `sg_utils` packages: [http://www.torque.net/sg/u\\_index.html](http://www.torque.net/sg/u_index.html) . A copy of the "u\_index.html" file is in the "html" subdirectory.

In the Linux 2.4 kernel series these utilities need to use the SCSI generic (`sg`) driver to access SCSI devices. The name of this package (i.e. `sg3_utils`) refers to version 3 of the SCSI generic (`sg`) driver which was introduced at the beginning of the 2.4 linux kernel series. Significantly this added a new SCSI command interface structure (i.e. `struct sg_io_hdr`) that is more flexible than the older "sg\_header" structure found in the `sg` driver in the 2.2 and earlier linux kernel series. The `sg_io_hdr` structure is also more flexible than the awkward (and limiting) interface to the `SCSI_IOCTL_SEND_COMMAND` ioctl supported by the linux SCSI mid level. The version 3 `sg` driver also added the `SG_IO` ioctl that is synchronous (i.e. it issues the requested SCSI command and waits for the response (or a timeout) before the ioctl returns to the user space program that invoked it). The `SG_IO` ioctl is now supported in other parts of the linux kernel in the 2.6 series.

Utilities that wish to use the asynchronous SCSI command interface (i.e. via a `write()` `read()` sequence) or issue special "commands" (e.g. bus and device resets) still need to use the `sg` driver. Note that various drivers (e.g. `cdrom/sr`) have different `open()` flag and permissions policies that the user may need to take into account.

If you have problems or questions about them please contact the author.

Documentation for the `sg` device driver can be found at:

[http://www.torque.net/sg/p/sg\\_v3\\_ho.html](http://www.torque.net/sg/p/sg_v3_ho.html) .

This is written in DocBook and the original xml can be found in the same directory with the ".xml" extension. Postscript and pdf renderings are also in that directory.

Older documentation for the `sg` version 3 driver can be found at:

[http://www.torque.net/sg/p/scsi\\_generic\\_v3.txt](http://www.torque.net/sg/p/scsi_generic_v3.txt) .

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The "`sg_lib.[hc]`" files contain ASCII text corresponding to most of the SCSI commands, errors and warning conditions. The "`sg_cmds.[hc]`" files contains code to invoke common SCSI commands and associated response processing. Both are guided by recent drafts at [www.t10.org](http://www.t10.org) which is the home site of SCSI (draft) standards. Since almost all

of the utilities use these files, a shared library called "libsgutils.so" is built. Use of this library cuts down the size of the binary distributions of sg3\_utils significantly. The "Makefile" provided in the main directory builds libsgutils.so and then builds each utility to use that shared library. Alternatively there is a script called "make\_no\_lib.sh" that will build utilities without depending on libsgutils.so . For example "./make\_no\_lib.sh sg\_dd" builds a version of the sg\_dd utility that does not depend on libsgutils.so .

All the utilities in the main directory have "man" pages. Additional information (including a version number) can be found towards the top of each ".c" file corresponding to each utility.

The sg driver in Linux can be seen as having 3 distinct versions:

- v1 lk < 2.2.6 sg\_header based relatively unchanged since 1992
- v2 lk >= 2.2.6 enhanced sg\_header interface structure [1999/4/16]
- v3 lk >= 2.4 additional sg\_io\_hdr interface structure [2001/1/4]
- v3 lk >= 2.6 same interface as found in lk 2.4 [2004/1/??]

This package is targeted as "v3" only. Another package called "sg\_utils" is targeted at "v2" and to a lesser extent "v1". The "sg\_utils" package has a subset of the utilities found in this package.

Some sg ioctls (notably SG\_IO) are defined for many block devices in lk 2.6 . In practice this means all SCSI block devices, ATAPI block devices (mainly CD and DVD players) but not ATA disks (currently). SATA disks that use the libata kernel library accept SCSI commands and thus are supported. Support for the SG\_IO as been added to the scsi tape driver (st) in lk 2.6.6 (and support for osst and ch (medium changer) may soon follow).

No utilities in the main directory use the sg driver's older "sg\_header" interface; instead they use the newer "sg\_io\_hdr" interface. The "sg\_io\_hdr" interface can be accessed two ways:

- using the SG\_IO ioctl [for synchronous access]
- using a write()/read() sequence that convey instances of "sg\_io\_hdr"

All utilities in the main directory that issue SCSI commands use the SG\_IO ioctl except for sgp\_dd. This is due to the asynchronous nature of sgp\_dd. Note that sgp\_dd does not support the "blk\_sgio" switch found in sg\_dd. This is important since block devices often identify themselves (programmatically) as sg devices in lk 2.6 and it would cause serious damage to do a write() of the sg driver's "sg\_io\_hdr" meta data (i.e. disk corruption).

Warning

=====

Many devices use SCSI command sets over transport protocols not normally

associated with SCSI (as defined at <http://www.t10.org> ). Some of these devices react poorly (e.g. lock up) when sent SCSI commands that they don't support. Even sending a supported SCSI command with a field set to an unexpected value can cause problems.

For example, all "SCSI" devices must support the INQUIRY command which the SCSI-2 standard says should request a 36 byte response. However later SCSI standards (e.g. SPC-2) have increased that length but some SCSI devices lock up when they receive a request for anything other than a 36 byte response.

Any well implemented "SCSI" device should react sensibly when a utility in `sg3_utils` sends a SCSI command that it doesn't support. Unfortunately this cannot be guaranteed.

## Utilities

=====

Here is list in alphabetical order of utilities found in the main directory of the `sg3_utils` directory:

- `sginfo`, `sgm_dd`, `sgp_dd`, `sg_dd`, `sg_emc_trespass`, `sg_get_config`,  
`sg_format`, `sg_inq`, `sg_logs`, `sg_luns`, `sg_map`, `sg_modes`, `sg_opcodes`,  
`sg_persist`, `sg_prevent`, `sg_rbuf`, `sg_read`, `sg_readcap`, `sg_read_long`,  
`sg_reassign`, `sg_request`, `sg_reset`, `sg_rmsn`, `sg_rtpg`, `sg_scan`,  
`sg_senddiag`, `sg_ses`, `sg_start`, `sg_sync`, `sg_test_rwbuff`, `sg_turs`,  
`sg_verify`, `sg_write_long`, `sg_wr_mode`

These utilities and the `libsgutils.so` library which they depend on are built by the Makefile in the main directory. This Makefile does not invoke the Makefile's in the subdirectories. Each utility in the main directory has a "man" page in section 8 (system administration commands). Binary distributions of the `sg3_utils` package (e.g. "rpm" and debian packages) typically contains the shared library, the utilities in the main directory, their associated man pages and some documentation files (e.g. README, INSTALL, CREDITS and COVERAGE). See the INSTALL file for instructions about building and installing from a "tarball".

Man pages can be read (without building and installing the package) by going to the main directory and executing something like this:

```
$ man ./sg_dd.8
```

To see which SCSI commands (and ATA commands) are used by these utilities see the COVERAGE file.

Here is a list in alphabetical order of utilities found in the archive subdirectory:

- `isozsize`, `scsi_devfs_scan`, `sg_debug`, `sgq_dd`

Some of these utilities have man pages.



Here is a list in alphabetical order of utilities found in the examples subdirectory:

- scsi\_inquiry, sg\_simple1, sg\_simple2, sg\_simple3, sg\_simple4, sg\_simple16.c

Also in that subdirectory is a script to test sg\_persist, an example data file for sg\_persist (called "transport\_ids.txt") and an example data file for sg\_reassign (called "reassign\_addr.txt").

The "utils" subdirectory contains source and a Makefile to build "hxascndmp" which accepts binary data from stdin (or a file on the command line) and outputs an ASCII-HEX and ASCII representation of it. It is similar to the Unix od command.

The "html" subdirectory contains copies of web pages relevant to the sg3\_utils package. Currently it contains:

- u\_index.html : a description of the sg3\_utils package contents
- sg\_dd.html : describes the sg\_dd utility and compares it with the Unix dd command

Notes for utilities without man pages

=====

The "scsi\_inquiry" program shows the use of the SCSI\_IOCTL\_SEND\_COMMAND ioctl to send a SCSI INQUIRY command. That ioctl() is supported by the SCSI sub system mid level and so is common to all sd, sr, st and sg devices. This program has been placed in the "examples" subdirectory.

"sgq\_dd" is yet another variant of dd found in the archive directory. From the user's point of view it is very similar to sgp\_dd but uses a non-blocking state machine rather than POSIX threads for parallelism.

"sg\_debug" is effectively defunct now. The user can instead do:  
\$ cat /proc/scsi/sg/debug . This command has been placed in the archive directory.

"sg\_simple1" and "sg\_simple2" are simple example programs demonstrating calls to the SCSI INQUIRY and TEST UNIT READY commands. They only differ in their error processing: sg\_simple1 uses sg\_lib.[hc] for error processing while sg\_simple2 does its own more primitive checks.

"sg\_simple3" tests out user space scatter gather added to the version 3 sg driver.

"sg\_simple4" shows the INQUIRY command using mmap-ed IO to obtain its response buffer.

"sg\_simple16" attempts to send a 16 byte SCSI command, READ\_16, to the scsi device. This is only supported for lk >= 2.4.15 and for adapter drivers that indicate that they have 16 byte CDB capability (otherwise DID\_ABORT will appear in the host\_status).

#### Header file problems

=====

These utilities include 2 special Linux header files:

```
#include <scsi/sg.h>
```

```
#include <scsi/scsi.h>
```

These files are typically found in the directory /usr/include/scsi which is maintained by the GNU glibc team. Unfortunately these GNU supplied headers may not be (functionally) the same as those found in the kernel source:

```
/usr/src/linux/include/scsi/sg.h and
```

```
/usr/src/linux/include/scsi/scsi.h
```

If glibc and the kernel on a machine are of the same vintage then it is probably sufficient to use the simple includes listed at the start of this section. Another technique that used to work was to rely on /usr/include/linux being a symbolic link to /usr/src/linux/include/linux .

That caused the following:

```
#include <linux/../scsi/sg.h>
```

```
#include <linux/../scsi/scsi.h>
```

to find the kernel supplied header files. However recent versions of glibc have removed this symlink. Hence this technique is no longer recommended.

The include file path issues are now all addressed in one file called "sg\_include.h". Please read that file.

#### scsirastools

=====

This package found at <http://scsirastools.sourceforge.net> contains utilities which overlap with the functionality offered in sg3\_utils. Utilities of note in scsirastools are:

- sgdiskfl: for loading firmware into SCSI disks
- sgmode: get and set mode pages
- sgdefects: list primary and grown defect lists
- sgdiag to perform format and other test functions

#### plscsi

=====

This is a utility which can issue arbitrary SCSI commands (i.e. supplied by user). It is available for Linux and other operating systems.

See <http://members.aol.com/plscsi> .

Doug Gilbert

5th June 2005

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```

```
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```

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```

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```

```
*
```

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```
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```

```
*/
```

## 1.114 sh-utils 2.0 :13

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# 1.121 sysstat 9.0.4 :1

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```
* Version: 1.31, 29-Feb-1996.
```

```
*
```

```
* This program was originally written for my employer,
```

```
* ** Cistron Electronics **
```

```
* who has given kind permission to release this program
```

```
* for general puppose.
```

```
*
```

```
* Copyright 1991-1996 Cistron Electronics.
```

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* 2 of the License, or (at your option) any later version.
```

```
*/
```

```
/* Use the new way of communicating with init. */
```



# 1.123 tar 1.13.19 :4

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```

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## 1.126 telnet 0.17 :18.1

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There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, the only remaining code that is substantially similar to Mr. Smith's is that in the file unreduce.c, which now by default is NOT compiled. The following copyright applies to unreduce.c:

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applies to the Amiga time code (amiga/time\_lib.c), distributed with UnZip version 5.32 and later:

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- \* <pueschel@imsdd.meb.uni-bonn.de>.
- \* From 'clockdaemon.readme' (available from Aminet, including
- \* <ftp://ftp.wustl.edu/pub/aminet/util/time/clockdaemon.lha>):
- \* "The original SAS/C functions gmtime, localtime, mktime and time
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The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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```

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The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

```
* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevens@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

---

## 1.132 util-linux 2.10f :7

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## 1.140 wu-ftpd 2.6.1

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