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1.8 LibELF 0.8.6

1.8.1 Available under license :

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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.

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(For example, a function in a library to compute square roots has

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1.9 net-tools 1.60

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That's all there is to it!

1.15 cryptsetup-luks 1.0.3 :8.el5

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1.17 openldap 2.4.23

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1.18 pciutils 2.2.3 :5

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1.19 bc 1.06 :10

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1.20 chkconfig 1.2.22 :1

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46. [50]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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40. mailto:%20derek@toybox.demon.co.uk
41. mailto:%20d@hd.org
42. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de

43. mailto:%20dirce@zk3.dec.com
44. mailto:%20wsanchez@apple.com
45. mailto:%20mrapple@quack.kfu.com
46. mailto:%20jack@innovativeinternet.com
47. mailto:%20schnitz@unipress.com
48. mailto:%20shields@tembel.org
49. mailto:%20pebbles.jpl.nasa.gov
50. mailto:%20harlan@pfcs.com
51. mailto:%20ken@sdd.hp.com
52. mailto:%20ajit@ee.udel.edu
53. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
54. mailto:%20vixie@vix.com
55. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

1.23 curl 7.20.1

1.23.1 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.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

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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

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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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 you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

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.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

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

[3] = LGPL - GNU Lesser General Public License:
<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:
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1.24 itext 2.1.2

1.24.1 Available under license :

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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.]

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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.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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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

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- b) 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.
- c) 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.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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Theodore Ts'o
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"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."

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- * 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
- * (Apple Macintosh Developer Technical Support Emeritus)
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- * MacBinaryIII.h
- *
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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.

1.32 cups 1.1.23

1.32.1 Available under license :

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Derek B. Noonburg
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WWW: <http://www.foolabs.com/xpdf/>

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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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Version 2, June 1991

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@c ispell-local-pdict: "ispell-dict"
@c End:
```

1.38 util-linux 2.10f :7

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1.41 gawk 3.0.6 :1

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1.43 mkttemp 1.5 :8

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1.46 procps 3.2.8

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1.48 mrtg 2.9.17

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* Network Throughput Monitoring *

Add on for
MRTG - The Multi Router Traffic Grapher

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INTRODUCTION

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The GNU LGPL applies to the CUPS API library, located in the "cups" subdirectory of the CUPS source distribution and in the "cups" include directory and library files in the binary

distributions. The GNU GPL applies to the remainder of the CUPS distribution, including the "pdftops" filter which is based upon Xpdf and the CUPS imaging library.

For those not familiar with the GNU GPL, the license basically allows you to:

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- Distribute or sell printer drivers and filters that use CUPS so long as source code is made available under the GPL.

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The GNU LGPL relaxes the "link-to" restriction, allowing you to develop applications that use the CUPS API library under other licenses and/or conditions as appropriate for your application.

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The Common UNIX Printing System provides a "pdftops" filter that is based on the Xpdf software. For binary distribution licensing of this software, please contact:

Derek B. Noonburg
Email: derekn@foolabs.com
WWW: <http://www.foolabs.com/xpdf/>

SUPPORT

Easy Software Products sells software support for CUPS as well as a commercial printing product based on CUPS called ESP Print Pro. You can find out more at our web site:

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Version 2, June 1991

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

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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.

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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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The "Library", below, refers to any such software library or work

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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 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.

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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of

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

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

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 compile or link a "work that uses the Library" with the Library to produce a

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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) 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.
- c) 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.
- d) 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 source code 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

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1.52 Binutils 2.10.91

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also compile 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) 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.
- c) 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.
- d) 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 source code 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 2.1, February 1999

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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.

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1.53 STLPort 4.5.3

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1.54 libiniparser 3.0b

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1.55 perl-XML-Parser 2.30

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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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```

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```
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at assemblers) written by James Hacker.
```

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

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1.56 crash 4.0.6.3 :8.1

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1.57 bison 2.1

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1.58 tar 1.13.19 :4

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1.61 kernprof 1.4

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1.63 device-mapper 1.02.23 :1

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1.65 freetype 2.0.9 :2

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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.

1.66 sed 3.0.2 :9

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1.69 db3 3.1.17 :7

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```
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 * $Id: LICENSE,v 11.6 2000/02/14 02:59:37 bostic Exp $  
*/
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1.71 initscripts 5.0

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1.72 JfreeChart 0.9.21 :1

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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 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.

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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c) Accompany the work with a written offer, valid for at

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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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1.73 libiconv 1.13.1

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free

libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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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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1.79 dash 0.5.6.1

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1.80 mdadm 1.5.0

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*

* @(#)ip.h 8.1 (Berkeley) 6/10/93

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```
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```

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That's all there is to it!

1.94 **readline 4.1 :9**

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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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1.95 less 358 :16

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1.96 findutils 4.1.6 :2

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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
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
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/* 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.

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*/

1.102 gdbm 1.8.0 :18

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```

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```

```
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1.103 re2 regex library 60 :1

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1.104 Dmidecode 2.9 :1

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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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1.105 strace 4.3 :2

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1.106 libtermcap 2.0.8 :26

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```
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```
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1.108 file 3.33 :1

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1.110 i2c-tools 3.0.2

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1.111 ncurses 5.8

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1.114 shadow-utils 20000826 :4

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1.116 krb5-libs 1.2.2 :24

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1.117 icu4c 4.6

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1.118 bash 3.0 :6.0.2.0801182

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```

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```

```
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1.120 sh-utils 2.0 :13

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```

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

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

1.126 pstack 1.2 :7.2.2

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```

```
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1.127 openssh-clients 3.1p1 :5

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*

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*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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1.128 open-vm-tools 8.4.2 :261024

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1.129 diffutils 2.7 :23

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or
```

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

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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1.130 perl-XML-DOM 1.25 :10

1.130.1 Available under license :

Perl module: XML::DOM

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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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.]

For bug reports or suggestions send email to 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

1.131 oprofile 0.9.1

1.131.1 Available under license :

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Version 2, June 1991

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- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
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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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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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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1.132 libwww 5.4.0

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Version 2, June 1991

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.133 sg3_utils 1.15

1.133.1 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 . 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 .

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 .

All utilities are either "GPL"-ed or have a FreeBSD license. The intention is that users may incorporate all or part of the code in their work as they please. Attribution is encouraged. Please check the code as other contributors (apart from the author) may also have copyright notices. For a list of contributors see the CREDITS file.

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 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:

- isosize, 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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```

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

```
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```
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*/
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1.137 Izma 4.32

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1.141 vim 6.0 :0.27

1.142 linux kernel 2.6.23

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```
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1.144 tcpdump 3.8.1 :4

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- *
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1.147 dhcp 3.0 :pl1

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```

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