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```
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```

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1.6 bc 1.06 :10

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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- 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.
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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

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Version 2.1, February 1999

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1.8 bison 2.1

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1.9 bridge-utils 1.2

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1.14 cupslib 1.1.23

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```
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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

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<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

(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/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

`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.

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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

[3] = LGPL - GNU Lesser General Public License:

<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:

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1.16 dash 0.5.6.1

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1.17 db3 3.1.17 :7

1.17.1 Available under license :

```
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```

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*

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1.19 device-mapper 1.02.23 :1

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```
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```

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```
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1.22 Dmidecode 2.9 :1

1.22.1 Available under license :

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Version 2, June 1991

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```

```
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1.23 e2fsprogs 1.37

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Theodore Ts'o
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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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1.36 glib 2.26.1

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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.

Written by Philip Hazel
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1.37 glibc 2.2.4

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1.38 grep 2.4.2 :5

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1.44 icu4c 4.6

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1.45 inetd 0.16

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1.46 initscripts 5.0

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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```
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```

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

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

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1.53 iscsi 2.1.2.1 :0

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```
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```

```
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Ty Coon, President of Vice
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1.54 itext 2.1.2

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Version 2, June 1991

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1.55 JfreeChart 0.9.21 :1

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- 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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
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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@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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
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
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1.62 kvm 83 :105.e15

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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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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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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END OF TERMS AND CONDITIONS

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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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1.67 libiconv 1.13.1

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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.

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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.

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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.)

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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.
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1.69 libjpeg 6b :19

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1.70 libpcap 0.6.2 :9

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1.72 libstdc++ 2.96 :85

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1.73 libtermcap 2.0.8 :26

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1.74 libuuid_e2fsprogs 1.41.8

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1.76 libxml2 2.7.2

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```
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```

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

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That's all there is to it!

1.81 logrotate 3.6.10 :1

1.81.1 Available under license :

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Version 2, June 1991

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1.84 Izma 4.32

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1.85 mdadm 1.5.0

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1.89 modutils 2.4.7

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```

```
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1.90 monte 0.3.0 :0

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1.93 mrtg 2.9.17

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```

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```
GetSNMPLinesUP.pl
```

for

```
MRTG - The Multi Router Traffic Grapher.
```

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```
*           mrtg-blast           *
*      Version 1.0 March 11 1997      *
*      Network Throughput Monitoring      *
```

Add on for
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1.94 mtools 3.9.11

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1.95 ncurses 5.8

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1.97 net-tools 1.60

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38. [42]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. [43]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. [45]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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
 48. [52]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
 49. [53]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
 50. [54]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
 51. [55]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
-

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1.101 open-vm-tools 8.4.2 :261024

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*

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1.108 oprofile 0.9.1

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

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```
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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1.112 perl 5.6.0 :12

1.112.1 Available under license :

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1.113 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.]

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

1.114 perl-XML-Parser 2.30

1.114.1 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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Version 1, February 1989

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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```

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

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```
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```

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

That's all there is to it!

1.115 popt 1.6.2 :8

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1.116 Postgresql 8.2.0

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1.117 procmail 3.21 :0.71

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```
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```

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

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1.118 procps 3.2.8

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<signature of Ty Coon>, 1 April 1990

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1.120 Prototype JS 1.7 :1

1.120.1 Available under license :

```
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 * (c) 2005-2010 Sam Stephenson
 *
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 *
```

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1.121 psmisc 19 :4

1.121.1 Available under license :

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1.122 pstack 1.2 :7.2.2

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```

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```

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1.123 re2 regex library 60 :1

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```

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```
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```

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1.125 rsh 0.16

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1.127 samba 3.0.32 :18

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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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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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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.
```

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

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1.128 sdparm 0.90

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1.129 sed 3.0.2 :9

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

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```

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Ty Coon, President of Vice
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1.130 sg3_utils 1.15

1.130.1 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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```

```
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```

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1.138 sysstat 9.0.4 :1

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1.139 SysVinit 2.78 :10

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

1.140 tar 1.13.19 :4

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1.141 tcp wrappers 7.6 :18

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1.142 tcpdump 3.8.1 :4

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1.143 telnet 0.17 :18.1

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1.148 unzip 5.41

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1.149 util-linux 2.10f :7

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1.152 vim 6.0 :0.27

1.153 vixie-cron 3.0.1 :69

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# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
# */
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1.154 wget 1.8.2 :5

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1.155 which 2.12 :1

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1.157 wu-ftpd 2.6.1

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(Version 8.6, last updated 6/24/98)

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