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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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If 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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1.6 attr 2.4.24

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```
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```
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```

```
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1.8 bash 3.0

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1.9 buildroot 5252005

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1.12 coreutils 5.93

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1.14 cups 1.1.23

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Derek B. Noonburg
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```

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1.15 cupslib 1.1.23

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1.16 device-mapper 1.02.25

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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) <year> <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 (at your option) any later version.

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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
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
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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Version 2.1, February 1999

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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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:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- 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.

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 the Library into a program that is not a library.

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- 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.)

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1.17 diffutils 2.8.4

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```

```
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1.19 dropbear 0.46

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=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c
and strlcat() (included in util.c) are from OpenSSH 3.6.1p2, and are licensed
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1.20 e2fsprogs 1.37

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Theodore Ts'o
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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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1.21 ethtool 3

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1.22 fakeroot 1.5.5

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I suppose 'libtricks' will take the quest of finding border-cases for the GPL yet one more (small) step forward. Does every dynamically linked executable fall under the GPL once someone said 'LD_PRELOAD=libtricks.so.0.0 executable'? That seems to be a rather strange interpretation of the GPL.

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I've considered using LGPL, but I decided against that because

- I still don't quite understand it's terms.
- I actually don't want a program that really needs this library to be distributed with any other licence than (L)GPL.

joost witteveen.

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1.23 file 4.12

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1.24 gcc 3.3.6

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1.25 gdb 6.2.1

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1.26 gdbm 1.8.3

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1.27 gettext 0.11.2

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```

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1.30 glibc-linuxthreads 2.3.5

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1.31 grep 2.5.1.ds1

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1.34 ifenslave 2.6.11

1.34.1 Available under license :

```
/* Mode: C;
* ifenslave.c: Configure network interfaces for parallel routing.
*
* This program controls the Linux implementation of running multiple
* network interfaces in parallel.
*
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*/
```

1.35 ifplugd 0.28

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```
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```

```
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```
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```

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```
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```

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```
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'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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Less, version 382

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You may also contact the author at:

Mark Nudelman
Greenwood Software
PO Box 2402
El Granada, CA 94018
USA

=====
=====

1.42 libdaemon 0.10

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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.

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1.44 libtool 1.5.8

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1.45 linux 2.6.18

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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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1.48 logrotate 3.7.1

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```

```
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1.49 Itt-control 0.27-04102006

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1.51 mdadm 2.6.4

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1.53 mod_auth_pam 1.1.1

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1.54 mod_dav 1.0.3-1.3.6

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<!-- hhmts start -->
Last modified: Thu Feb 3 17:34:42 PST 2000
<!-- hhmts end -->
</body>
</html>
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1.55 mod_ssl 2.8.11-1.3.33

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1.56 monit 4.9

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1.60 net-snmp 5.2.1

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1.69 pmap 29092002

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1.70 popt 1.7

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Quota extension module for Perl

Author: Tom Zoerner (email: tomzo AT nefkom DOT net)

Version: 1.5.1

Date: July 2005

DSL-code: Rdcf

- stable release
- support by developer
- C compiler required for installation
- plain functions, no references used

Supported: SunOS 4.1.3,

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Linux - kernel 2.0.30 and later, incl. Quota API v2,

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AFS (Andrew File System) on many of the above (see INSTALL),

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1.74 quota 3.13

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/*

* QUOTA An implementation of the diskquota system for the LINUX operating
* system. QUOTA is implemented using the BSD syscall interface
* as the means of communication with the user level. Should work for
* all filesystems because of integration into the VFS layer of the
* operating system. This is based on the Melbourne quota system which
* uses both user and group quota files.

*

* Program to query for the internal statistics.

*

* Author: Marco van Wieringen <mvw@planets.elm.net>

*

* Version: \$Id: quotastats.c,v 1.10 2002/06/16 19:00:46 jkar8572 Exp \$

*

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*/

1.75 samba 3.0.28a

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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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```
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
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```
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```

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

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Public License instead of this License.

1.76 sg3_utils 1.15

1.76.1 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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Version 2, June 1991

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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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```
#ifndef SG_LIB_H
#define SG_LIB_H
```

```
/*
```

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```

1.77 shadow 4.0.18.1

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*

* \$Id: pwauth.h,v 1.6 2005/05/25 19:31:50 kloczek Exp \$

*/

/*

vipw, vigr edit the password or group file

with -s will edit shadow or gshadow file

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*/

/* A Bison parser, made by GNU Bison 2.1. */

/* Skeleton parser for Yacc-like parsing with Bison,

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   in version 1.24 of Bison. */
```

```
/* Written by Richard Stallman by simplifying the original so called
   ``semantic" parser. */
```

```
/* All symbols defined below should begin with yy or YY, to avoid
   infringing on user name space. This should be done even for local
   variables, as they might otherwise be expanded by user macros.
   There are some unavoidable exceptions within include files to
   define necessary library symbols; they are noted "INFRINGES ON
   USER NAME SPACE" below. */
```

1.78 smartmontools 5.33

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1.83 sysklogd 1.4.1

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```

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```

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```

```
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1.85 tar 1.15.1

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```

```
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1.86 uClibc 0.9.28

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For an executable, the required form of the "work that uses the

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

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```

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```
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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!

1.87 udev 120

1.87.1 Available under license :

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.89 util-linux_2.12r-6.diff 2.12r-6

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```

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```
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```

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1.92 wget 1.9.1

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1.98 ypbind-mt 1.19.1

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