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## Version 5.2.1

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## 1.6 axis 1.4

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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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## 1.9 Binutils 2.10.91

### 1.9.1 Available under license :

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```

```
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# 1.17 cupslib 1.1.23

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

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<one line to give the library's name and a brief idea of what it does.>  
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Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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!

## 1.18 curl 7.20.1

### 1.18.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

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

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

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

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

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

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

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

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

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

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

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

zlib [http://www.gzip.org/zlib/zlib\\_license.html](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/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

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

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```

```
<signature of Ty Coon>, 1 April 1989
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## 1.26 e2fsprogs 1.37

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Theodore Ts'o  
15-Mar-2003

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## 1.39 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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\*/

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.47 icu4c 4.6

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## 1.57 itext 2.1.2

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Version 1.1

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## 1.58 JfreeChart 0.9.21 :1

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- 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
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- lib/gssapi/mechglue/g\_seal.c
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## 1.60 kernprof 1.4

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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  
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lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
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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  
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## 1.66 LDAP SDK - Netscape 4.1

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## 1.68 libdaemon 0.14

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## 1.70 LibELF 0.8.6

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

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

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(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.)

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

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

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If such an object file uses only numerical parameters, data

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## 1.76 libstdc++ 2.96 :85

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

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

```
This program is free software; you can redistribute it and/or modify  
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(at your option) any later version.
```

```
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```

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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) 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.
```

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

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## 1.77 libtermcap 2.0.8 :26

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

```
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```

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

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

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.78 libuuid\_e2fsprogs 1.41.8

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## 1.79 libwww 5.4.0

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Version 2, June 1991

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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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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

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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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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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## 1.85 logrotate 3.6.10 :1

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## 1.88 Izma 4.32

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## 1.89 mdadm 1.5.0

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## 1.90 mingetty 0.9.4

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## 1.93 modutils 2.4.7

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\* mrtg-blast \*  
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Add on for  
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16. [17]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for

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  21. [22]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
  22. [23]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [24]<H.Lambermont@chello.nl> ntpswEEP
  23. [25]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
  24. [26]Frank Kardel [27]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
  25. [28]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
  26. [29]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
  27. [30]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
  28. [31]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
  29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
  30. [33]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
  31. [34]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
  32. [35]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
  33. [36]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
  34. [37]Jeffrey Mogul <mogul@pa.dec.com> ntprtrace utility
  35. [38]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
  36. [39]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
  37. [40]Derek Mulcahy <derek@toybox.demon.co.uk> and [41]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
  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 Snchez <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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## 1.106 openldap 2.4.23

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## 1.113 Paravirtualized Guest Drivers for Linux

### 1.0

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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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## 1.115 pciutils 2.2.3 :5

### 1.115.1 Available under license :

This package contains the PCI Utilities, version 2.2.3.

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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# 1.116 perl 5.6.0 :12

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## 1.117 perl-XML-DOM 1.25 :10

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Perl module: XML::DOM

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

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

XML::Parser is a Perl extension interface to James Clark's XML parser, expat.

It requires at least version 5.004 of perl and can be found on CPAN.

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

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

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

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

```
perl Makefile.PL
```

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

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

Then to build you run make.

```
make
```

You can then test the module by typing:

```
make test
```

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

make install

Enno Derksen  
enno@att.com

# 1.118 perl-XML-Parser 2.30

## 1.118.1 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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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

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## 1.119 popt 1.6.2 :8

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```

```
<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.123 procps lib 3.2.5 :5.0.0.0501961

## 1.123.1 Available under license :

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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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Ty Coon, President of Vice

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## 1.124 Prototype JS 1.7 :1

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```
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 *
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# 1.125 psmisc 19 :4

## 1.125.1 Available under license :

psmisc (fuser, killall and pstree) program code, documentation and auxiliary programs are

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```

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## 1.127 re2 regex library 60 :1

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## 1.132 sdparm 0.90

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## 1.133 sed 3.0.2 :9

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## 1.134 sg3\_utils 1.15

### 1.134.1 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

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A web site supporting the sg3\_utils package, its predecessor sg\_utils, and the Linux SCSI generic driver (and the scsi\_debug driver) can be found at <http://www.torque.net/sg> . The most recent release version of sg3\_utils and the most recent beta is on that page. There is also a page describing the utilities in the sg3\_utils and sg\_utils packages: [http://www.torque.net/sg/u\\_index.html](http://www.torque.net/sg/u_index.html) . A copy of the "u\_index.html" file is in the "html" subdirectory.

In the Linux 2.4 kernel series these utilities need to use the SCSI generic (sg) driver to access SCSI devices. The name of this package (i.e. sg3\_utils) refers to version 3 of the SCSI generic (sg) driver which was introduced at the beginning of the 2.4 linux kernel series. Significantly this added a new SCSI command interface structure (i.e. struct sg\_io\_hdr) that is more flexible than the older "sg\_header" structure found in the sg driver in the 2.2 and earlier linux kernel series. The sg\_io\_hdr structure is also more flexible than the awkward (and limiting) interface to the SCSI\_IOCTL\_SEND\_COMMAND ioctl supported by the linux SCSI mid level.

The version 3 sg driver also added the SG\_IO ioctl that is synchronous (i.e. it issues the requested SCSI command and waits for the response (or a timeout) before the ioctl returns to the user space program that invoked it). The SG\_IO ioctl is now supported in other parts of the linux kernel in the 2.6 series.

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

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

Documentation for the sg device driver can be found at:

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

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

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

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

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The "sg\_lib.[hc]" files contain ASCII text corresponding to most of the SCSI commands, errors and warning conditions. The "sg\_cmds.[hc]" files contains code to invoke common SCSI commands and associated response processing. Both are guided by recent drafts at [www.t10.org](http://www.t10.org) which is the home site of SCSI (draft) standards. Since almost all of the utilities use these files, a shared library called "libsgutils.so" is built. Use of this library cuts down the size of the binary distributions of sg3\_utils significantly. The "Makefile" provided in the main directory builds libsgutils.so and then builds each utility to use that shared library. Alternatively there is a script called "make\_no\_lib.sh" that will build utilities without depending on libsgutils.so . For example `./make_no_lib.sh sg_dd` builds a version of the sg\_dd utility that does not depend on libsgutils.so .

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

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

v1 lk < 2.2.6 sg\_header based relatively unchanged since 1992

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

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

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

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

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

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

#### Warning

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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

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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

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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

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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

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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

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

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

Doug Gilbert

5th June 2005

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```

```
<signature of Ty Coon>, 1 April 1989
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#define SG_LIB_H
```

```
/*
```

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## 1.135 sh-utils 2.0 :13

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# 1.142 sysstat 9.0.4 :1

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

## 1.144 tar 1.13.19 :4

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# 1.152 unzip 5.41

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This file contains some details about the copyright history of contributions to the UnZip project.

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Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

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There are currently four explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): the original Sam Smith copyright on unzip 2.0, upon which Info-ZIP's UnZip 3.0 was based (now only applicable to the code for the unreduce extraction method); Norbert Pueschel's copyright on the Amiga time.lib code; Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus



that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

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

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

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

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

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- \* From 'clockdaemon.readme' (available from Aminet, including
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- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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## 1.153 util-linux 2.10f :7

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Version 2, June 1991

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