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libfile/  
A lib that implements the 'file' command (BSD 2 clause)

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HFS support lib (GPL)

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libscgcmd/  
A SCSI-generic library that implements basic SCSI commands (CDDL)

This library sends the SCSI commands via libscg.

libschily/  
The schily basic support library (CDDL)

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mkisofs/  
A ISO-9660/Rock-Ridge/Joliet/HFS/UDF filesystem formatter (GPL)  
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readcd/  
A CD/DVD read utility (CDDL)  
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rscsi/  
The remote SCSI generic transport daemon (CDDL)  
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RULES/  
The main part of the Schily Makefilesystem (CDDL)

scgcheck/  
The libscg interface compliance check program (CDDL)  
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scgskeleton/  
A libscg skeleton demo program (CDDL)  
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TARGETS/  
Slot support for the Schily Makefile system (CDDL)

TEMPLATES/  
Template support for the Schily Makefile system (CDDL)

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## ceph

Version: 14.2.3

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#### check

**Version:** 0.12.0

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Check: a unit test framework for C

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#### cim-schema

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## clutter

**Version:** 1.26.2

### NOTICES:

Clutter.

An OpenGL based 'interactive canvas' library.

**Authored By Matthew Allum** [mallum@openedhand.com](mailto:mallum@openedhand.com)

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## clutter-gst

**Version:** 3.0-3.0.27

### NOTICES:

Clutter-GStreamer.

GStreamer integration library for Clutter.

clutter-gst-aspectratio.c - An object implementing the ClutterContent interface to render a video with respect to its aspect ratio.

Authored by Lionel Landwerlin [lionel.g.landwerlin@linux.intel.com](mailto:lionel.g.landwerlin@linux.intel.com)

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## clutter-gtk

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gtk-clutter-actor.c: Gtk widget ClutterActor

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## cogl

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## cross-localedef-native

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## cunit

**Version:** 2.1.3

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## cups

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**Version:** 7.61.0

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From curl-7.24.0/lib/md4.c

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## db

**Version:** 5.3.28

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## db

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**Version:** 4.8.6

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## dialog

**Version:** 1.3-20190728

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## error (liberror-perl)

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Dov Grobgeld, 1999, 2000

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*From ghostscript-9.16\base\gscrypt1.c*

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**glib-networking**

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daemon - replacement for daemon function.

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## gnome-desktop

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gst-validate-bin-monitor.c - Validate BinMonitor class

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## iozone3

Version: 484

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Don Capps  
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iozone can perform single stream and multi stream IO also it now performs read, write, re-read, re-write, read backwards, readwrite random, re-read record, pread, re-pread, re-pwrite, preadv, re-preadv, pwritev stride read, and re-pwritev, mmap, POSIX async IO, NFS cluster testing and much more.

The frontend now uses getopt() and the user can control many more of the actions.

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## libestr

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libestr - some essentials for string handling (and a bit more)

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Portable arc4random.c based on arc4random.c from OpenBSD. Portable version by Chris Davis, adapted for Libevent by Nick Mathewson.

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Arc4 random number generator for OpenBSD.

This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

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## libfakekey

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A simple library for converting utf8 chars into 'fake' keypresses.

Uses ideas from Fontconfig, libvirtkeys.c, keysym2ucs.c and dasher.  
Authored By Matthew Allum [amillum@openedhand.com](mailto:amillum@openedhand.com)

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*From rsa.c*

RSA implementation

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*From grypt.texi file*

This is the IDEA algorithm. The constant is provided but there is currently no implementation for it because the algorithm is patented.

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## libgnomekbd

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**Version:** 1.14

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lockfile.c Safely creates a lockfile, also over NFS.

This file also holds the implementation for the Svr4 maillock functions.

Version: @(#)lockfile.c 1.06 04-Jun-2004 miquels@cistron.nl

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## libsemanage

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## libvirt, libvirt-python

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## libX11

**Version:** 1.6.8

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**Version:** 20201022

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iconv (Charset Conversion Library) v2.0

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From LICENCE.agere

```
agere_sta_fw.bin -- 9.48 Hermes I
agere_ap_fw.bin -- 9.48 Hermes I
```

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

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Hope this helps.

Sincerely,

Viren Pathare  
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### *From patents.txt*

ARB\_texture\_float:  
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SGI believes this patent contains necessary IP for graphics systems implementing floating point rasterization and floating point framebuffer capabilities described in ARB\_texture\_float extension, and will discuss licensing on RAND terms, on an individual basis with companies wishing to use this IP in the context of conformant OpenGL implementations

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## mhash

**Version:** 0.9.9.9

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## microcode-ctl

**Version:** 2.1

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*From microcode\_ctl.c*  
 microcode\_ctl - Manipulate /dev/cpu/microcode under Linux

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#### mpc (libmpc)

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## mpg123

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## mx

**Version:** 1.0-1.4.7

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mx-action.c: MxAction object

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## ncurses

**Version:** 6.1 +20190803

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*From tclcock.c*

tclock - analog/digital clock for curses.

If it gives you joy, then (a) I'm glad (b) you need to get out more :-)

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## nettle

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## nose

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## nspr

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numademo links with a library derived from the C version of STREAM by John D. McCalpin and Joe R. Zagar for one sub benchmark. See stream\_lib.c for the license. In particular when you publish numademo output you might need to pay attention there or filter out the STREAM results.

It also uses a public domain Mersenne Twister implementation from Michael Brundage.

Version 2.0.10-rc2: (C)2014 SGI

Author:  
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Version 2.0.0 by Cliff Wickman, Christoph Lameter and Lee Schermerhorn  
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## ocaml

**Version:** 4.02.3

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Version: 1.18

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*From util.c*

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**Version:** 2.0.27

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### open-isns

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Author:  
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Current maintainer:

### openscap

**Version:** 1.3.1

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### openssh

**Version:** 7.7p1

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*From README file*

OpenSSH is based on the last free version of Tatu Ylonen's sample implementation with all patent-encumbered algorithms removed (to external libraries), all known security bugs fixed, new features reintroduced and many other clean-ups. OpenSSH has been created by Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt, and Dug Song. It has a homepage at <http://www.openssh.com/>

This version of OpenSSH is based upon code retrieved from the OpenBSD CVS repository which in turn was based on the last free sample implementation released by Tatu Ylonen.

◆◆◆

*From LICENCE file*

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However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

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Cryptographic attack detector for ssh - source code

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@version 3.0 (December 2000)  
Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen [vincent.rijmen@esat.kuleuven.ac.be](mailto:vincent.rijmen@esat.kuleuven.ac.be)

@author Antoon Bosselaers [antoon.bosselaers@esat.kuleuven.ac.be](mailto:antoon.bosselaers@esat.kuleuven.ac.be)

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**openssl**

Version: 1.1.1v

**NOTICES:***From CHANGES file*

The patented RC5 and MDC2 algorithms will now be disabled unless "enable-rc5" and "enable-mdc2", respectively, are specified.

(IDEA remains enabled despite being patented. This is because IDEA is frequently required for interoperability, and there is no license fee for non-commercial use. As before, "no-idea" can be used to avoid this algorithm.)

Point compression for binary fields is disabled by default for patent reasons (compile with OPENSSL\_EC\_BIN\_PT\_COMP defined to enable it).

Two implementations for BN\_GF2m\_mod\_div() are available. The default algorithm simply uses BN\_GF2m\_mod\_inv() and BN\_GF2m\_mod\_mul(). The alternative algorithm is compiled in only if OPENSSL\_SUN\_GF2M\_DIV is defined (patent pending; read the copyright notice in crypto/bn/bn\_gf2m.c before enabling it).

Preliminary compilation option RSA\_NULL which disables RSA crypto without removing all other RSA functionality (this is what NO\_RSA does). This example) those in the US can disable those operations covered by the RSA patent while allowing storage and parsing of RSA keys and RSA key generation. [Steve Henson]

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*From README file***PATENTS**

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The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, fully featured, and Open Source toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library. The project is managed by a worldwide community of volunteers that use the Internet to communicate, plan, and develop the OpenSSL toolkit and its related documentation.

OpenSSL is based on the excellent SSLeay library developed from Eric A. Young and Tim J. Hudson. The OpenSSL toolkit is licensed under a dual-

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◆◆◆

On Wed, 26 Jun 1996, Ken Toll wrote:

> Is the U.S the only country that SSLeay cannot be used commercially  
> (because of RSAref) or is that going to be an issue with every country  
> that a client/server application (non-web browser/server) is deployed  
> and sold?

>From what I understand, the software patents that apply to algorithms like RSA and DH only apply in the USA. The IDEA algorithm I believe is patented in Europe (USA?), but considering how little it is used by other SSL implementations, it quite easily be left out of the SSLeay build (this can be done with a compile flag).

Actually if the RSA patent did apply outside the USA, it could be rather interesting since RSA is not allowed to let RSA toolkits outside of the USA [1], and since these are the only forms that they will allow the algorithm to be used in, it would mean that non-one outside of the USA could produce public key software which would be a very strong statement for international patent law to make :-). This logic is a little flawed but it still points out some of the more interesting permutations of USA patent law and ITAR restrictions.

Inside the USA there is also the unresolved issue of RC4/RC2 which were made public on sci.crypt in Sep 1994 (RC4) and Feb 1996 (RC2). I have copies of the original postings if people are interested. RSA I believe claim that they were 'trade-secrets' and that some-one broke an NDA in revealing them. Other claim they reverse engineered the algorithms from compiled binaries. If the algorithms were reverse engineered, I believe RSA had no legal leg to stand on. If an NDA was broken, I don't know. Regardless, RSA, I believe, is willing to go to court over the issue so licensing is probably the best idea, or at least talk to them. If there are people who actually know more about this, please let me know, I don't want to vilify or spread miss-information if I can help it.

If you are not producing a web browser, it is easy to build SSLeay with RC2/RC4 removed. Since RC4 is the defacto standard cipher in all web software (and it is damn fast) it is more or less required for www use. For non www use of SSL, especially for an application where interoperability with other vendors is not critical just leave it out.

Removing IDEA, RC2 and RC4 would only leave DES and Triple DES but they should be ok. Considering that Triple DES can encrypt at rates of 410k/sec on a pentium 100, and 940k/sec on a P6/200, this is quite reasonable performance. Single DES clocks in at 1160k/s and 2467k/s respectively is actually quite fast for those not so paranoid (56 bit key).[1]

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A. Cryptogams are lower plants, which reproduce by spores.

#### Q. Huh? What do plants have to do with you?

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ModExp / RSA (with/without KM) plugin API

The application will load a dynamic library which exports entrypoint(s) defined in this file.

This set of entrypoints provides only a multithreaded, synchronous-within-each-thread, facility.

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## optimized\_libs

**Version:**

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Original version by James Carlson

From *md5.c*

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## pseudo

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Version:

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enc/iso_8859_3.c
enc/iso_8859_4.c
enc/iso_8859_5.c
enc/iso_8859_6.c
enc/iso_8859_7.c
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Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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From *ev.c*

libev event processing core, watcher management

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## sysfsutils

**Version:** 2.1.0

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sysfs\_dir.c

Directory utility functions for libsysfs

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## shadow

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 (original MPC implementation)

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## talloc

**Version:** 2.3.0

### **NOTICES:**

Samba Unix SMB/CIFS implementation.

Samba trivial allocation library - new interface

NOTE: Please read talloc\_guide.txt for full documentation

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## tdb

**Version:** 1.4.2

### **NOTICES:**

Unix SMB/CIFS implementation.

Python interface to tdb.

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## tevent

**Version:** 0.10.1

### **NOTICES:**

Unix SMB/CIFS implementation.

common events code for fd events

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## thunar-archive-plugin

**Version:** 0.4.0

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## ti-bt-firmware

**Version:** 1\_0.0

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## ti-sgx-ddk-um

**Version:** 1.14.3699939

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## tiff

**Version:** 4.0.9

### **NOTICES:**

*From tiff-4.0.3/html/TIFFTechNote2.html*

It should be noted that the optional arithmetic-coding extension is subject to several US and Japanese patents. To avoid patent problems, use of arithmetic coding processes in TIFF files intended for inter-application interchange is discouraged.

◆◆◆

*From tiff-4.0.3/html/v3.5.3.html*

Unisys has the patent on LZW compression and have been very active in their enforcement of late, demanding payments of \$5000 or more from

websites using unlicensed software to create GIF's. They could well do the same do persons using libtiff to create LZW compressed TIFF images. From Burn All GIF's Day:

*The catch is that it appears to be difficult or impossible to get a Unisys license to use LZW in free software that complies with the Open Source Definition.*

Unfortunately, the removal of LZW compression means that saved image size has grown dramatically. Without a change in the TIFF spec to support another lossless compression format, this is unavoidable.

The library can use zip for lossless compression, but as this is not part of the spec, TIFFs using zip compression may not work with other software. We will be making a patch available that will contain the LZW compression code for users who have either obtained a license from Unisys or are willing to risk it.

LZW decompression is unchanged.

## TimeDate

**Version:** 2.30

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## trace-cmd

**Version:** 2.7

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## ttf-bitsream-vera

**Version:** 1.10

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#### Copyright FAQ

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##### 1. I don't understand the resale restriction... What gives?

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##### 3. Are derivative works allowed?

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##### 4. Can I change or add to the font(s)?

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##### 7. I want to sell a software package that uses these fonts: Can I do so?

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##### 8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

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## unixODBC

**Version:** 2.3.7

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## unzip

**Version:** 1\_6.0

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

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

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*From INSTALL file*

The "shrinking" algorithm from PKZIP 1.0 is an LZW variant. Unisys patented the Lempel-Ziv-Welch algorithm in 1985 and has publicly claimed that decompression is covered by it. (IBM also patented the same thing in a filing 3 weeks prior to Unisys's.) In 2004, the Unisys and IBM patents expired worldwide, so unshrinking is now enabled again by default. If you do not wish to include the LZW method, you may still disable it by defining LZW\_CLEAN.

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As of July 2004, Unisys's LZW patent was expired worldwide, and unshrinking is turned on by default since the release of UnZip 5.52. See UnZip's INSTALL file for details.

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From unshrink.c file

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unshrink.c                      version 1.22                      19 Mar 2008

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## usdpaa-apps

**Version:**                      git-r0

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## userspace-rcu (liburcu)

**Version:**                      0.11.1

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```

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## util-linux

**Version:**                      2.34

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From *mkfs.minix.c*, *mkswap.c*

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Author: JÃ¼rg Billeter [j@bitron.ch](mailto:j@bitron.ch)

## vim

**Version:** 9.0.2048

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From *efm\_perl.pl*

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From *xxd.c*

Small changes made afterwards by Bram Moolenaar et al.

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From *regexp.c*

Handling of regular expressions: `vim_regcomp()`, `vim_regexec()`, `vim_regsub()`

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Changes have been made by Tony Andrews, Olaf 'Rialto' Seibert, Robert Webb, Ciaran McCreesh and Bram Moolenaar. Named character class support added by Walter Briscoe (1998 Jul 01)

## vte

**Version:** 0.52.2

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## watchdog

**Version:** 5.15

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## wpa\_supplicant

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## xfce4-battery-plugin

Version: 1.1.0

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## xfce4-genmon-plugin

**Version:** 4.0.1

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Generic Monitor plugin for the Xfce4 panel  
Main file for the Genmon plugin

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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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(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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## zlib

**Version:** 1.2.11

### NOTICES:

*From zlib-1.2.8/FAQ*

Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information: <http://www.gzip.org/#faq11>

What about patents?

gzip was developed as a replacement for compress because of the UNISYS and IBM patents covering the LZW algorithm used by compress.

I have probably spent more time studying data compression patents than actually implementing data compression algorithms. I maintain a list of several hundred patents on lossless data compression algorithms, and I made sure that gzip isn't covered by any of them. In particular, the --fast option of gzip is not as fast it could, precisely to avoid a patented technique. The first version of the compression algorithm used by gzip appeared in zip 0.9, publicly released on July 11th 1991. So any patent granted after July 11th 1992 cannot threaten gzip because of the prior art, and I have checked all patents granted before this date.

During my search, I found two interesting patents on a process which is mathematically impossible: compression of random data. This is somewhat equivalent to patents on perpetual motion machines. Check here for a short analysis of these two patents <http://gailly.net/05533051.html>

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