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**Version:** 3.34.3, 3.38.0

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**ARM trusted firmware**

**Version:** 2.3, 2.4, 2.5

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**bcm2835-bootfiles**

**Version:** 20191107

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**bind**

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## clutter

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

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## clutter-gst

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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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## chromium-x11

**Version:** 120.0.6099.224

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**Version:** 2.3.3

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**Version:** 8.0.1

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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:** 4.11.2

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daemon - replacement for daemon function.

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## gnome-desktop

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## gnupg

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

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## intel-microcode

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## iozone3

**Version:** 490

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iozone is based on the original work done by William Norrcot. It has been enhanced so that it provides a more complete filesystem characterization. Its purpose is to provide automated filesystem characterization.

Enhancements have been made by:

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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.

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## libestr

**Version:** 0.1.11

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

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## libevent

**Version:** 2.1.12

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*From arc4random.c*

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

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Note that in Libevent, this file isn't compiled directly. Instead, it's included from evutil\_rand.c

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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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## libexif

**Version:** 0.6.22

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## libfakekey

**Version:** 0.3

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**Version:** 1.3.1

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fm.c

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◆ ◆ ◆

*From rsa.c*

RSA implementation

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This code uses an algorithm protected by U.S. Patent #4,405,829 which expired on September 20, 2000. The patent holder placed that patent into the public domain on Sep 6th, 2000.

*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.

## libgnome-keyring

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## libgnomekbd

**Version:** 3.26.1

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**libgphoto2**

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**libgsf**

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**libgudev**

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**libhugetlbfs**

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Python interface to ldb.

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## liblockfile

**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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## libndp

**Version:** 1.7

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libndp.c - Neighbour discovery library

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## libnotify

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libp11, a simple layer on to of PKCS#11 API

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## libsemanage

**Version:** 3.2

### **NOTICES:**

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## libubootenv

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## libunique

**Version:** 1.1.6

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## libusb1

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## libusb-compat

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## libubootenv

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iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

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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,

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Fast discrete Fourier and cosine transforms and inverses

author: Monty <xiphmont@mit.edu>

modifications by: Monty

last modification date: Jul 1 1996

/\* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swartztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. \*/

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1. lio\_nic\_23xx.bin, lio\_210nv\_nic.bin, lio\_410nv\_nic.bin
2. lio\_vsw\_23xx.bin

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1. lio\_nic\_23xx.bin, lio\_210nv\_nic.bin, lio\_410nv\_nic.bin

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## linux-kernel (linux-yocto)

**Version:** 5.10.119

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Written by John R. Hauser. This work was made possible in part by the International Computer Science Institute, located at Suite 600, 1947 Center Street, Berkeley, California 94704. Funding was partially provided by the National Science Foundation under grant MIP-9311980. The original version of this code was written as part of a project to build a fixed-point vector processor in collaboration with the University of California at Berkeley, overseen by Profs. Nelson Morgan and John Wawrzynek. More information is available through the web page <http://HTTP.CS.Berkeley.EDU/~jhauser/arithmetic/softfloat.html>

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## lksctp-tools

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This file is part of the user library that offers support for the SCTP kernel Implementation. The main purpose of this code is to provide the SCTP Socket API mappings for user application to interface with the SCTP in kernel.

This implementation is based on the Socket API Extensions for SCTP defined in <draft-ietf-tsvwg-sctpsocket-10.txt>.

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**Version:** 2.12.5, 2.12.9

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**Version:** 2.12.3

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## marvell-armada

Version: 12.0.1

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## matchbox-keyboard

Version: 0.1.1

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Matchbox Keyboard - A lightweight software keyboard.  
Authored By Matthew Allum [mallum@o-hand.com](mailto:mallum@o-hand.com)

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## menu-cache

Version: 1.1.0

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menu-cache.c

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**Version:** 21.0.1

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#### ARB\_texture\_float:

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## mhash

**Version:** 0.9.9.9

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## microcode

**Version:** 20190312

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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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## mx

**Version:** 1.0-1.4.7

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*From tclcock.c*

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## nettle

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Author:  
Andi Kleen, SUSE Labs

Version 2.0.0 by Cliff Wickman, Christoph Lameter and Lee Schermerhorn  
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## oath

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## openldap

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## openscap

**Version:** 1.3.3

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## openssh

**Version:** 8.5p1

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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*

This file is part of the OpenSSH software.

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OpenSSH contains no GPL code.

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- 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:** 1.1.1.x

### 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

Various companies hold various patents for various algorithms in various locations around the world. YOU are responsible for ensuring that your use of any algorithms is legal by checking if there are any patents in your country. The file contains some of the patents that we know about or are rumored to exist. This is not a definitive list.

RSA Security holds software patents on the RC5 algorithm. If you intend to use this cipher, you must contact RSA Security for licensing conditions. Their web page is <http://www.rsasecurity.com/>

RC4 is a trademark of RSA Security, so use of this label should perhaps only be used with RSA Security's permission.

The IDEA algorithm is patented by Ascom in Austria, France, Germany, Italy, Japan, the Netherlands, Spain, Sweden, Switzerland, UK and the USA. They should be contacted if that algorithm is to be used; their web page is <http://www.ascom.ch/>.

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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-license (the OpenSSL license plus the SSLeay license) situation, which basically means that you are free to get and use it for commercial and non-commercial purposes as long as you fulfill the conditions of both licenses.

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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 statment 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 licencing 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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Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL project. The module is, however, dual licensed under OpenSSL and CRYPTOGAMS licenses depending on where you obtain it. For further details see <http://www.openssl.org/~appro/cryptogams/>.

#### Q. What are cryptogams?

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

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

A. Nothing really, it's just a name I've chosen (though naturally not without simple covert meaning in mind ;-)) to denote a collection of low-level cryptographic primitives written in assembler by yours truly for the OpenSSL project. Being the original author of these modules I've chosen to exercise the freedom to license my work under multiple licenses. The licensing terms is the key and the only difference between given OpenSSL modules and the corresponding ones provided as part of CRYPTOGAMS. If obtained as a part of the OpenSSL Toolkit the modules are covered by the OpenSSL license, while if obtained as a part of the CRYPTOGAMS distribution - by the CRYPTOGAMS License.

#### Q. What is the license then?

A. The license is "new" BSD one [see below], but for the record I'm using it kind of under protest. The problem I have with the readily available licenses is that they address the complete chain up to the end-users. While CRYPTOGAMS by themselves are quite useless [they have to be wrapped in a higher level API and should never be called by end-user application directly], I originally wanted their license to address exclusively cryptographic toolkit developers, but grant the them right to re-license the incorporated code under any OSI approved [copyleft] license. But I was advised against it with argumentation that license text is not actually plain English words and I would definitely have trouble proliferating it. To a degree I have to agree at least with the former, because I've got headache reading license texts looking for suitable one. Yet, I don't quite understand why does it have to be the case [e.g. BSD license didn't actually contribute to the migraine], so if anybody feels like giving me a hand here, I would appreciate it very much...

#### Q. Why did you do it?

A. Because I was kindly asked to, with reference to the fact that the OpenSSL licensing terms were not an option for certain Open Source project in need of high-performance crypto [which my work was recognized for]. By doing so I also seek wider adoption of my work and consequently inspiration for implementing more algorithms and/or on more platforms.

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ModExp / RSA (with/without KM) plugin API

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

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

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**Version:** 11.2.5

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```

base64.c -- routines to encode/decode base64 data \$OpenLDAP:  
pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /  
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```
>>> unicode-5.0
```

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## pygobject

**Version:** 3.28.3

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pygtk- Python bindings for the GTK toolkit.

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pygobject.c: wrapper for the GObject type.

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**python-websocket-client**

**Version:** 0.58.0

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websocket - WebSocket client library for Python

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- plugins (like imklog, omrelp, ...)
- the rsyslog runtime library

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- vm.c/.h
- vmop.c/.h
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- expr.c/.h
- sysvar.c/.h
- ctok.c/.h
- ctok\_token.c/.h

- regexp.c/.h
- sync.c/.h
- stream.c/.h
- var.c/.h

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regerror.c:
regex.c:
regint.h:
regparse.[ch]:
enc/ascii.c
enc/big5.c
enc/cp949.c
enc/emacs_mule.c
enc/encdb.c
enc/euc_jp.c
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enc/unicode.c
enc/us_ascii.c
enc/utf_16be.c
enc/utf_16le.c
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```

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A C-program for MT19937, with initialization improved 2002/2/10. Coded by Takuji Nishimura and Makoto Matsumoto. This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

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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## scap-security-guide

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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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## syslinux

**Version:** 6.04

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## systemd (libsystemd)

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## systemd-serialgetty

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## talloc

**Version:** 2.3.0

### **NOTICES:**

Samba Unix SMB/CIFS implementation.

Samba trivial allocation library - new interface

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Python interface to tdb.

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## tevent (libtevent)

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Unix SMB/CIFS implementation.

common events code for fd events

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## thunar-archive-plugin

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## ti-rtos-firmware

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## tiff

**Version:** 4.2.0

### **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.

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*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

### **NOTICES:**

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## trace-cmd

**Version:** 2.7

### **NOTICES:**

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## ttf-bitsream-vera

**Version:** 1.10

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#### Copyright FAQ =====

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

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

##### 2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves.  
See 1. above.

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

Yes!

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

Yes, but you must change the name(s) of the font(s).

##### 5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to

ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

##### 6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

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

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

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

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

## uboot

**Version:** s32-2019.04, 2020.04

### NOTICES:

ddrssi\_firmware\_emu.c

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**unixODBC**

**Version:** 2.3.7

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**unzip**

**Version:** 1\_6.0

**NOTICES:**

From COPYING.OLD file

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

**FIRST NOTE:**

This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. 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 two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): 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, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

**MoreFiles**

A collection of File Manager and related routines by Jim Luther (Apple Macintosh Developer Technical Support Emeritus) with significant code contributions by Nitin Ganatra (Apple Macintosh Developer Technical Support Emeritus)

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**MacBinaryIII.h**

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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.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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-----

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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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*From WHERE file*

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.

As of January 2000, US export regulations were amended to allow export of free encryption source code from the US. As of June 2002, these regulations were further relaxed to allow export of encryption binaries associated with free encryption source code. The Zip 2.31, UnZip 5.52 and Wiz 5.02 archives now include full crypto source code. As of the Zip 2.31 release, all official binaries include encryption support; the former "zcr" archives ceased to exist. (Note that restrictions may still exist in other countries, of course.)

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*From extrafd.txt file*

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unshrink.c

version 1.22

19 Mar 2008

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**Version:** 0.12.2

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## util-linux

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

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## vim

**Version:** 9.0.2130

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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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Beware that some of this code is subtly aware of the way operator precedence is structured in regular expressions. Serious changes in regular-expression syntax might require a total rethink.

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

## vte

**Version:** 0.62.2

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## watchdog

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**xfce4-battery-plugin**

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**xfce4-genmon-plugin**

**Version:** 4.1.1

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*From perl-5.14.2/pod/perl584delta.pod*

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```
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```

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**Common Name:** GPL v2, GPL-2.0

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## zlib

**Version:** 1.2.8

### **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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