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**arm-trusted-firmware**

**Version:** 2.3, 2.4, 2.5, 2.6, 2.7, 2.8

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Version: 1.14.3

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## cdrtools-native

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**ceph**

**Version:** 15.2.15

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Check: a unit test framework for C

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## chromium-x11

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## clutter

**Version:** 1.26.4

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

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## clutter-gst

**Version:** 3.0-3.0.27

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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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**Version:** 2.4.2

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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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**Version:** 5.7

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**glib**

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daemon - replacement for daemon function.

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

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## img-pvr-sdk

Version: 2.2.12

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## iozone3

**Version:** 492

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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:

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-pwriterv, 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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## kubernetes

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## less

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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:** 0.6.24

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## libfakekey

**Version:** 0.3

### **NOTICES:**

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

Uses ideas from Fontconfig, libvirtkeys.c, keysym2ucs.c and dasher.

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

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## libfm

**Version:** 1.3.2

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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 crypt.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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Author: Stef Walter [stef@memberwebs.com](mailto:stef@memberwebs.com)

## libgnomekbd

**Version:** 3.26.1

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Unix SMB/CIFS implementation.

Python interface to ldb.

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## liblockfile

**Version:** 1.17

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lockfile.c Safely creates a lockfile, also over NFS.  
This file also holds the implementation for the Svr4 mlock functions.  
Version: @(#)/lockfile.c 1.06 04-Jun-2004 miquels@cistron.nl

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March 29, 2012

## libproxy

Version: 0.4.18

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## libsemanage

**Version:** 3.5

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## libusb1

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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  
Intellectual Property Licensing Manager  
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*From LICENCE.atheros\_firmware*

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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. Swarztrauber 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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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews [bmathews@xceive.com](mailto:bmathews@xceive.com) to Devin Heitmueller [dheitmueller@kernellabs.org](mailto:dheitmueller@kernellabs.org) on July 1, 2009.

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## linux-kernel (linux-yocto)

**Version:** 6.1.109

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Mathieu Desnoyers

June 2, 2011

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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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Silicon Graphics, Inc. owns US Patent #6,650,327, issued November 18, 2003.

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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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**mingw-libgnurx**

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**mpg123**

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**mtools**

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## multipath-tools

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**Version:** 1.0-1.4.7

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mx-action.c: MxAction object

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## ncurses

**Version:** 6.4

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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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- The make-ssh-known-hosts script is no longer included
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**prebuilt-ae**

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**pseudo**

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pygobject.c: wrapper for the GObject type.

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## resource-agents

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## ruby

**Version:** 3.2.2

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 regcomp.c:  
 regenc.[ch]:  
 regerror.c:  
 regexec.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  
 enc/euc\_kr.c  
 enc/euc\_tw.c  
 enc/gb18030.c  
 enc/gb2312.c  
 enc/gbk.c  
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 enc/iso\_8859\_5.c  
 enc/iso\_8859\_6.c  
 enc/iso\_8859\_7.c  
 enc/iso\_8859\_8.c  
 enc/iso\_8859\_9.c  
 enc/koi8\_r.c  
 enc/koi8\_u.c  
 enc/shift\_jis.c

enc/unicode.c  
enc/us\_ascii.c  
enc/utf\_16be.c  
enc/utf\_16le.c  
enc/utf\_32be.c  
enc/utf\_32le.c  
enc/utf\_8.c  
enc/windows\_1251.c

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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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## shadow

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## sysfutils

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sysfs\_dir.c

Directory utility functions for libsysfs

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## syslinux

**Version:** 6.04

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## talloc

**Version:** 2.3.0

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Samba Unix SMB/CIFS implementation.

Samba trivial allocation library - new interface

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## ti-bt-firmware

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## ti-rtos-firmware

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#### AES-based functions

- AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
- One-Key CBC MAC (OMAC1) hash with AES-128
- AES-128 CTR mode encryption
- AES-128 EAX mode encryptiondecryption
- AES-128 CBC

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MD5 hash implementation and interface functions  
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## ti-sgx-ddk-um

**Version:** 1.14.3699939

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## tiff

**Version:** 4.5.1

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

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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

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## trace-cmd

**Version:** 2.7

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## trusted-firmware

**Version:** 2.8.0

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## ttf-bitsream-vera

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**Copyright FAQ**

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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 could 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:** 2023.01

**NOTICES:**

*ddrss\_firmware\_emu.c*

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## unixODBC

**Version:** 2.3.11

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## unzip

**Version:** 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.

-----  
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, unsharking 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 Licence. 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

#### **Copyright 1997 Christopher Evans ([cevans@poppybank.com](mailto:cevans@poppybank.com))**

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The following copyright applies to the full-featured unreduce.c (now distributed separately):

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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, ZiplInfo, 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.

♦♦♦

#### *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.)

♦♦♦

#### *From extrafld.txt file*

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♦♦♦

#### *From unshrink.c file*

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unshrink.c

version 1.22

19 Mar 2008

*NOTE: This code may or may not infringe on the so-called "Welch patent" owned by Unisys. (From reading the patent, it appears that a pure LZW decompressor is not covered, but this claim has not been tested in court, and Unisys is reported to believe otherwise.) It is therefore the responsibility of the user to acquire whatever license(s) may be required for legal use of this code.*

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#### usdpaa-apps

Version: git-r0

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## userspace-rcu (liburcu)

**Version:** 0.12.1

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urcu.c  
urcu-static.h  
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arch\_ppc.h

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```
#define __LGPL_SOURCE
#include <urcu.h>
```

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## ustr

**Version:** 1.0.4

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## util-linux

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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:** 9.0.1592

### **NOTICES:**

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♦♦♦

*From xxd.c*

Small changes made afterwards by Bram Moolenaar et al.

Distribute freely and credit me,  
make money and share with me,  
lose money and don't ask me.

♦♦♦

*From regexp.c*

Handling of regular expressions: vim\_regcomp(), vim\_regexec(), vim\_regsub()

### **NOTICE:**

This is NOT the original regular expression code as written by Henry Spencer. This code has been modified specifically for use with the VIM editor, and should not be used separately from Vim. If you want a good regular expression library, get the original code. The copyright notice that follows is from the original.

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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:** 0.72.0

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## xfce4-battery-plugin

**Version:** 1.1.4

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## xfce4-genmon-plugin

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## zlib

**Version:** 1.2.8

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*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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