

# Utimaco DiskEncrypt

Version 9.00.11

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```
/*-----*/  
/*--- Public header file for the library. ---*/  
/*--- bzip.h ---*/  
/*-----*/
```

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Julian Seward, Cambridge, UK.  
jseward@acm.org  
bzip2/libbzip2 version 1.0 of 21 March 2000

This program is based on (at least) the work of:

- Mike Burrows
- David Wheeler
- Peter Fenwick
- Alistair Moffat
- Radford Neal
- Ian H. Witten
- Robert Sedgewick
- Jon L. Bentley

For more information on these sources, see the manual.

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The following is applicable to **FileFinder**:

```
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// Implemented by Samuel Gonzalo  
//  
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//  
// FileFinder.cpp: implementation of the CFileFinder class.  
//  
////////////////////////////////////
```

=====

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```
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```

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## Lenovo

This software uses software components from Lenovo for fingerprint authentication and rescue and recovery.

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## libjpeg (Independent JPEG Group's JPEG software)

The following is applicable to libjpeg (Independent JPEG Group's JPEG software):

The Independent JPEG Group's JPEG software

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README for release 8d of 15-Jan-2012

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DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
ACKNOWLEDGMENTS	Special thanks.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt	How to configure and install the IJG software.
usage.txt	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.txt).
wizard.txt	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.txt	Overview of the JPEG library's internal structure.
filelist.txt	Road map of IJG files.
coderrules.txt	Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K. "The JPEG Still Picture Compression Standard",  
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from

<http://www.ecma-international.org/publications/techreports/E-TR-098.htm>.

A PostScript version of the JFIF document is available at

<http://www.ijg.org/files/jfif.ps.gz>. There is also a plain text version at

<http://www.ijg.org/files/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <http://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org).  
The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1  
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## ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.  
Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (also known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

#### FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

Furthermore, the ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

There are currently distributions in circulation containing the name "libjpeg" which claim to be a "derivative" or "fork" of the original libjpeg, but don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. Furthermore, they violate the license conditions as described under LEGAL ISSUES above.

We have no sympathy for the release of misleading and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

#### TO DO

=====

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to [jpeg-info@jpegclub.org](mailto:jpeg-info@jpegclub.org).

=====

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A "png\_get\_copyright" function is available, for convenient use in "about"  
boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the  
files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson  
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=====

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----

File: `bsd.c.patched`

Contents: Source code modifications for the following FreeBSD library: libusb V 0.1.12.

Description: `usb_os_find_devices` now checks all available device names (one name per interface) of an USB device, not just the first.

----

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 *
 * Equivalent code is available from RSA g_Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 *
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */
```

=====

## Michael Dunn

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```
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//
// CShellFileOp.cpp: implementation of the CShellFileOp class.
//
////////////////////////////////////
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//
// Contact me if you have any questions, comments, or bug reports. My
// homepage is at http://home.inreach.com/mdunn/
//
////////////////////////////////////
//
// Revision history:
```

```
// Oct 11, 1998: Version 1.0: First release.  
//  
// Feb 27, 2000: Version 1.1: Fixed a bug in CShellFileOp::Go() that  
// would allocate twice the memory needed in Unicode builds. The 'new'  
// statements now allocate BYTEs instead of TCHARs.  
//  
////////////////////////////////////
```

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=====

## Path

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```
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//  
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////////////////////////////////////  
//  
// Path.cpp: implementation of the CPath class.  
//  
////////////////////////////////////
```

=====

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/\*

Module : CHOOSDIRDLG.CPP

Purpose: Implementation for an MFC class to get a directory/folder.

Uses the file open/save as common dialogs or the newer Shell API SHBrowseForFolder

Created: PJN / 26-11-1997

History: PJN / 03-04-1999 General code clean-up.

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## Qt

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Agreement version 3.3

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- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")

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- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic"))
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi)

### Third-Party Licenses Used in Qt

#### FreeType 2 (freetype)

The FreeType project is a team of volunteers who develop free, portable and high-quality software solutions for digital typography. We specifically target embedded systems and focus on bringing small, efficient and ubiquitous products. -- quoted from [3rdparty/freetype/docs/freetype2.html](http://3rdparty/freetype/docs/freetype2.html).

See [src/3rdparty/freetype/docs/FTL.txt](http://src/3rdparty/freetype/docs/FTL.txt) and [src/3rdparty/freetype/docs/GPL.txt](http://src/3rdparty/freetype/docs/GPL.txt) for license details.

See also the files in [src/3rdparty/opentype](http://src/3rdparty/opentype), which are used by FreeType.

Parts of the FreeType projects have been modified and put into Qt for use in the painting subsystem. These files are `ftraster.h`, `ftraster.c`, `ftgrays.h` and `ftgrays.c`. The following modifications has been made to these files:

- Renamed `FT_` and `ft_` symbols to `QT_FT_` and `qt_ft_` to avoid name conflicts.
- Removed parts of code not relevant when compiled with `_STANDALONE_` defined.
- Changed behavior in `ftraster.c` to follow X polygon filling rules.
- Implemented support in `ftraster.c` for winding / odd even polygon fill rules.
- Replaced bitmap generation with span generation in `ftraster.c`
- Renamed: `ftraster.h` to `qblackraster_p.h`
- Renamed: `ftraster.c` to `qblackraster.c`
- Renamed: `ftgrays.h` to `qgrayraster_p.h`
- Renamed: `ftgrays.c` to `qgrayraster.c`

### HarfBuzz (`harfbuzz`)

*This is HarfBuzz, an OpenType Layout engine.*

*It was derived originally from the OpenType code in FreeType-1.x, ported to FreeType2. (This code has been abandoned for FreeType2, but until something better comes along, should serve our purposes.) In addition to porting to FreeType-2, it has been modified in various other ways. -- quoted from `src/3rdparty/harfbuzz/README`.*

See `src/3rdparty/harfbuzz/COPYING.FTL` and `src/3rdparty/harfbuzz/COPYING.GPL` for license details.

### MD5 (`md5.cpp` and `md5.h`)

*This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish. -- quoted from `src/3rdparty/md5/md5.h`*

See `src/3rdparty/md5/md5.cpp` and `src/3rdparty/md5/md5.h` for more information about the terms and conditions under which the code is supplied.

### The Independent JPEG Group's JPEG Software (`libjpeg`)

*This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. -- quoted from `src/3rdparty/libjpeg/README`.*

See `src/3rdparty/libjpeg/README` for license details.

### MNG Library (`libmng`)

*The `libmng` library supports decoding, displaying, encoding, and various other manipulations of the Multiple-image Network Graphics (MNG) format image files. It uses the `zlib` compression library, and optionally the JPEG library by the Independent JPEG Group (IJG) and/or `lcms` (little cms), a color-management library by Marti Maria Saguer. -- quoted from `src/3rdparty/libmng/doc/libmng.txt`*

See `src/3rdparty/libmng/LICENSE` for license details.

### PNG Reference Library (`libpng`)



Libpng was written as a companion to the PNG specification, as a way of reducing the amount of time and effort it takes to support the PNG file format in application programs. -- quoted from src/3rdparty/libpng/libpng.txt.  
See src/3rdparty/libpng/LICENSE for license details.

#### TIFF Software Distribution (libtiff)

*libtiff is a set of C functions (a library) that support the manipulation of TIFF image files.* -- quoted from src/libtiff/html/libtiff.html  
See src/3rdparty/libtiff/COPYRIGHT for license details.

#### SQLite (sqlite)

*SQLite is a small C library that implements a self-contained, embeddable, zero-configuration SQL database engine.* -- quoted from www.sqlite.org.  
According to the comments in the source files, the code is in the public domain. See the SQLite Copyright page on the SQLite web site for further information.

#### Wintab API (wintab)

Wintab is a de facto API for pointing devices on Windows. The wintab code is from <http://www.pointing.com/WINTAB.HTM>.  
See src/3rdparty/wintab/wintab.h for license details.

#### Data Compression Library (zlib)

*zlib is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952* -- quoted from src/3rdparty/zlib/README.  
See src/3rdparty/zlib/README for license details.

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## Rijndael

The following is applicable to **Rijndael**:

```
/**
 * rijndael-api-fst.h
 *
 *
 * @version 2.9 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
```

\* @author Paulo Barreto <paulo.barreto@terra.com.br>  
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\*  
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\*/

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```
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 *
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 *
```

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## StdString

The following is applicable to Josef O'Leary's **StdString**:

```
// =====
// FILE: StdString.h
//
// Original file downloaded at http://home.earthlink.net/~jmoleary/code/StdString.zip.
//
// This file compiles in eVC4 SP4 and all Visual C++s with their MS distribution of the Standard C++
// Library
//
// Changes tagged with '// AR' copyright (c) Alain Rist 2006:
//           - WTL::CString compatibility
//           - WTL projects integration
```

```
//          - VS2005, VCEXpress: Win32 compilation
//          - VS2005, eVC4 SP4: WinCE compilation with the compiler provided Standard
C++ Library
//
// VS2005, VCEXpress note:
//          - #define _CRT_SECURE_NO_DEPRECATED before inclusion of <crtdefs.h> to avoid
deprecation warnings.
//
// WinCE note: compile with eVC4 and VS2005 compilers provided Standard C++ Library.
//          - eVC4 compilation requires the /GX compiler flag: enable unwind semantics for C++
exception handler.
//          - VS2005 compilation requires to patch <Microsoft Visual Studio
8>\VC\ce\include\comdef.h #3240
//          to: [int nLen = lstrlen(m_pszMsg);].
//
// =====
// AUTHOR:   Joe O'Leary (with outside help noted in comments)
//
//          If you find any bugs in this code, please let me know:
//
//          jmoleary@earthlink.net
//          http://www.joeo.net/stdstring.htm (a bit outdated)
//
// The latest version of this code should always be available at the
// following link:
//
//          http://www.joeo.net/code/StdString.zip (Dec 6, 2003)
//
//
//
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-----  
- Xserver: xc/programs/Xserver ... different files  
-----

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```
-----
- vesa driver: xc/programs/Xserver/hw/xfree86/drivers/vesa/vesa.c
-----
```

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\* David Dawes <dawes@xfree86.org>

\*

\* \$XFree86: xc/programs/Xserver/hw/xfree86/drivers/vesa/vesa.c,v 1.40 2003/11/03 05:11:45 tsi Exp \$  
\*/

-----  
- vga driver: xc/programs/Xserver/hw/xfree86/drivers/vga/generic.c

-----  
/\*

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-----  
- mouse driver : xc/programs/Xserver/hw/xfree86/input/mouse/mouse.c

-----  
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-----

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=====

## **zlib**

The following is applicable to **zlib 1.2.6**:

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.6, January 29th, 2012

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/