



# Open Source Used In Cisco Webex Desk Camera 2.3

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## Contents

### **1.1 blink 0.1.0**

1.1.1 Available under license

### **1.2 check-disk-space 2.1.0**

1.2.1 Available under license

### **1.3 swscale 5.5.100**

1.3.1 Available under license

### **1.4 angular 9.1.4**

1.4.1 Available under license

### **1.5 zlib 1.1.1.1**

1.5.1 Available under license

### **1.6 libvpx 1.8.2-125-g667138e1f**

1.6.1 Available under license

### **1.7 mbed-tls 2.16.8**

1.7.1 Available under license

### **1.8 icu 65**

1.8.1 Available under license

### **1.9 skia 83**

1.9.1 Available under license

### **1.10 native-scracap 1.0.0**

1.10.1 Available under license

### **1.11 ucos-ii 2.81**

1.11.1 Available under license

### **1.12 ffmpeg n4.2.4**

1.12.1 Available under license

### **1.13 v8 7.14.1.121**

1.13.1 Available under license

## **1.14 cli-color 2.0.0**

1.14.1 Available under license

## **1.15 libusb 1.0.0**

1.15.1 Available under license

## **1.16 libpng 1.6.37**

1.16.1 Available under license

## **1.17 easyloggingpp 9.89**

1.17.1 Available under license

## **1.18 libjpeg-turbo 2.0.1**

1.18.1 Available under license

## **1.19 safestringlib 1.0.0**

1.19.1 Available under license

## **1.20 node.js 12.14.1**

1.20.1 Available under license

## **1.21 electron 9.4.1**

1.21.1 Available under license

# **1.1 blink 0.1.0**

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## 1.5 zlib 1.1.1.1

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Microsoft Developer Studio Project Files, Format Version 6.00 for zlib.

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This project builds the zlib binaries as follows:

- \* Win32\_DLL\_Release\zlib1.dll     DLL build
- \* Win32\_DLL\_Debug\zlib1d.dll     DLL build (debug version)
- \* Win32\_DLL\_ASM\_Release\zlib1.dll  DLL build using ASM code
- \* Win32\_DLL\_ASM\_Debug\zlib1d.dll  DLL build using ASM code (debug version)
- \* Win32\_LIB\_Release\zlib.lib     static build
- \* Win32\_LIB\_Debug\zlibd.lib     static build (debug version)
- \* Win32\_LIB\_ASM\_Release\zlib.lib   static build using ASM code
- \* Win32\_LIB\_ASM\_Debug\zlibd.lib   static build using ASM code (debug version)

For more information regarding the DLL builds, please see the DLL FAQ  
in ..\..\win32\DLL\_FAQ.txt.

To build and test:

- 1) On the main menu, select "File | Open Workspace".  
Open "zlib.dsw".
- 2) Select "Build | Set Active Configuration".  
Choose the configuration you wish to build.
- 3) Select "Build | Clean".
- 4) Select "Build | Build ... (F7)". Ignore warning messages about  
not being able to find certain include files (e.g. alloc.h).
- 5) If you built one of the sample programs (example or minigzip),  
select "Build | Execute ... (Ctrl+F5)".

To use:

- 1) Select "Project | Settings (Alt+F7)".  
Make note of the configuration names used in your project.  
Usually, these names are "Win32 Release" and "Win32 Debug".
- 2) In the Workspace window, select the "FileView" tab.  
Right-click on the root item "Workspace '...'".  
Select "Insert Project into Workspace".



Switch on the checkbox "Dependency of:", and select the name of your project. Open "zlib.dsp".

3) Select "Build | Configurations".

For each configuration of your project:

3.1) Choose the zlib configuration you wish to use.

3.2) Click on "Add".

3.3) Set the new zlib configuration name to the name used by the configuration from the current iteration.

4) Select "Build | Set Active Configuration".

Choose the configuration you wish to build.

5) Select "Build | Build ... (F7)".

6) If you built an executable program, select

"Build | Execute ... (Ctrl+F5)".

Note:

To build the ASM-enabled code, you need Microsoft Assembler (ML.EXE). You can get it by downloading and installing the latest Processor Pack for Visual C++ 6.0.

Found in path(s):

\* /opt/cola/permits/1161446205\_1622094365.1/0/zlib-1-2-3-bin-zip/contrib/zlib/1.2.3/zlib-1.2.3/projects/visualc6/README.txt

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 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 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other formats from [ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html](http://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html)

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The compression library itself is composed of all source files except `example.c` and `minigzip.c`.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short "make test; make install" should work for most

machines. For Unix: `./configure; make test; make install`. For MSDOS, use one of the special makefiles such as `Makefile.msc`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.3 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit <http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html>  
See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is in the CPAN (Comprehensive Perl Archive Network) sites <http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries [<a.kupries@westend.com>](mailto:a.kupries@westend.com) is available at [http://www.oche.de/~akupries/soft/trf/trf\\_zip.html](http://www.oche.de/~akupries/soft/trf/trf_zip.html)

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32` compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.
- For PalmOs, see <http://palmzlib.sourceforge.net/>
- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

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\* /opt/cola/permits/1161446205\_1622094365.1/0/zlib-1-2-3-bin-zip/contrib/zlib/1.2.3/zlib-1.2.3/README

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### Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page <http://www.zlib.org> which may have more recent information. The latest zlib FAQ is at [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

#### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

#### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://www.zlib.org>.

#### 3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://www.dogma.net/markn/articles/zlibtool/zlibtool.htm>
- \* contrib/visual-basic.txt in the zlib distribution
- \* win32/DLL\_FAQ.txt in the zlib distribution

#### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress, the length of the compressed buffer is equal to the total size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h for the moment, and Francis S. Lin has converted it to a web page [zlib.html](#). Volunteers to transform this to Unix-style man pages, please contact us ([zlib@gzip.org](mailto:zlib@gzip.org)). Examples of zlib usage are in the files [example.c](#) and [minigzip.c](#).

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

```
make clean
./configure -s
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16. Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.fastio.com/> (ClibPDF), or <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The gz\* functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's Init functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering

is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

It should. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression.

29. Does zlib work on MVS, OS/390, CICS, etc.?

We don't know for sure. We have heard occasional reports of success on these systems. If you do use it on one of these, please provide us with a report, instructions, and patches that we can reference when we get these questions. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at



to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. 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>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of a 4K string space, other than the caller of gzprintf() assuring that the output will not exceed 4K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions

1.1.3 and before were subject to a double-free vulnerability.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://www.zlib.org/>

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the

"deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

```
* /opt/cola/permits/1161446205_1622094365.1/0/zlib-1-2-3-bin-zip/contrib/zlib/1.2.3/zlib-1.2.3/FAQ
```

No license file was found, but licenses were detected in source scan.

These classes provide a C++ stream interface to the zlib library. It allows you to do things like:

```
gzofstream outf("blah.gz");  
outf << "These go into the gzip file " << 123 << endl;
```

It does this by deriving a specialized stream buffer for gzipped files, which is the way Stroustrup would have done it. :->

The gzifstream and gzofstream classes were originally written by Kevin Ruland and made available in the zlib contrib/iostream directory. The older version still compiles under gcc 2.xx, but not under gcc 3.xx, which sparked the development of this version.

The new classes are as standard-compliant as possible, closely following the approach of the standard library's fstream classes. It compiles under gcc versions 3.2 and 3.3, but not under gcc 2.xx. This is mainly due to changes in the standard library naming scheme. The new version of gzifstream/gzofstream/gzfilebuf differs from the previous one in the following respects:

- added showmanyc
- added setbuf, with support for unbuffered output via setbuf(0,0)
- a few bug fixes of stream behavior
- gzipped output file opened with default compression level instead of maximum level
- setcompressionlevel()/strategy() members replaced by single setcompression()

The code is provided "as is", with the permission to use, copy, modify, distribute and sell it for any purpose without fee.

Ludwig Schwardt  
<schwardt@sun.ac.za>

DSP Lab  
Electrical & Electronic Engineering Department  
University of Stellenbosch  
South Africa

Found in path(s):

\* /opt/cola/permits/1161446205\_1622094365.1/0/zlib-1-2-3-bin-zip/contrib/zlib/1.2.3/zlib-1.2.3/contrib/iostream3/README

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This directory contains a Pascal (Delphi, Kylix) interface to the zlib data compression library.

Directory listing

=====

zlibd32.mak makefile for Borland C++  
example.pas usage example of zlib  
zlibpas.pas the Pascal interface to zlib  
readme.txt this file

Compatibility notes

=====

- Although the name "zlib" would have been more normal for the zlibpas unit, this name is already taken by Borland's ZLib unit. This is somehow unfortunate, because that unit is not a genuine interface to the full-fledged zlib functionality, but a suite of class wrappers around zlib streams. Other essential features, such as checksums, are missing. It would have been more appropriate for that unit to have a name like "ZStreams", or something similar.

- The C and zlib-supplied types int, uInt, long, uLong, etc. are translated directly into Pascal types of similar sizes (Integer, LongInt, etc.), to avoid namespace pollution. In particular, there is no conversion of unsigned int into a Pascal unsigned integer. The Word type is non-portable and has the same size (16 bits) both in a 16-bit and in a 32-bit environment, unlike Integer. Even if there is a 32-bit Cardinal type, there is no

real need for unsigned int in zlib under a 32-bit environment.

- Except for the callbacks, the zlib function interfaces are assuming the calling convention normally used in Pascal (`__pascal` for DOS and Windows16, `__fastcall` for Windows32). Since the `cdecl` keyword is used, the old Turbo Pascal does not work with this interface.

- The `gz*` function interfaces are not translated, to avoid interfacing problems with the C runtime library. Besides, `gzprintf(gzFile file, const char *format, ...)` cannot be translated into Pascal.

## Legal issues

=====

The `zlibpas` interface is:

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The example program is:

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Found in path(s):

\* /opt/cola/permits/1161446205\_1622094365.1/0/zlib-1-2-3-bin-zip/contrib/zlib/1.2.3/zlib-1.2.3/contrib/pascal/readme.txt

# 1.6 libvpx 1.8.2-125-g667138e1f

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# This file contains a list of people who've made non-trivial  
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# here. Please keep the list sorted by first names.

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## 1.7 mbed-tls 2.16.8

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## 1.8 icu 65

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
```

```
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

### ## Dependency rules

```
%d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'
```

```
%d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'
```

### ## Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

### ## Bind internal references

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
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```

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*
*****/
```

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```
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* /opt/cola/permits/1167803750_1622097172.77/0/native-scracap-tar/native-scracap/src/win32/d3drmobj.h
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```
/*
```

```
  _____
 | | | | | | | | | | JSON for Modern C++
 | | | | | | | | | | version 3.7.3
 |_____|_____|_____|_____| https://github.com/nlohmann/json
```

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For a detailed description of the algorithm see:

- [1] Loitsch, "Printing Floating-Point Numbers Quickly and Accurately with Integers", Proceedings of the ACM SIGPLAN 2010 Conference on Programming Language Design and Implementation, PLDI 2010
- [2] Burger, Dybvig, "Printing Floating-Point Numbers Quickly and Accurately", Proceedings of the ACM SIGPLAN 1996 Conference on Programming Language Design and Implementation, PLDI 1996

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- 1) Reporting problems
- 2) Software Upgrades
- 3) Release Notes

/\*\$PAGE\*/

\*\*\*\*\*  
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\*\*\*\*\*

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c/o: Jean J. Labrosse

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\*\*\*\*\* SOFTWARE UPGRADES \*\*\*\*\*  
\*\*\*\*\*

As you can see, I have been trying to support uC/OS (i.e. V1.xx) and now, uC/OS-II. When bugs are found, I do my best to promptly correct them. It is virtually impossible to notify everybody that purchased the code (i.e. the diskette) to tell them that a new version is available. You should occasionally check the uC/OS-II WEB site (www.ucos-ii.com) or the Micrium web site (www.Micrium.com) to see what version is currently shipping.

I will not be upgrading the publisher everytime I add new features to uC/OS-II.

I would highly suggest that you resist changing the STYLE of the code unless you don't mind spending many hours doing so everytime you upgrade.

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\*\*\*\*\* RELEASE NOTES \*\*\*\*\*  
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1) RELEASE NOTES:

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The release notes are now provided in PDF format in the file:

\\Micrium\Software\uCOS-II\Doc\ReleaseNotes.PDF

2) FEATURES SINCE V2.00:

-----

All the features added since V2.00 are described in the PDF file:

\\Micrium\Software\uCOS-II\Doc\WhatsNewSince-V200.PDF

3) QUICK REFERENCE CHART:

-----

A Quick Reference Chart for all the functions in V2.8x is provided in the following .PDF files:

\\Micrium\Software\uCOS-II\Doc\QuickRefChart-Color.PDF

If you have a LAMINATION machine, you can protect the chart by laminating it.

4) REFERENCE AND CONFIGURATION MANUALS:

-----

The updated Reference and Configuration Manual (Chapter 16 and 17 in the MicroC/OS-II 2nd Edition book) have been included in .PDF format in this distribution. These documents are found in:

\\Micrium\Software\uCOS-II\Doc\uCOS-II-RefMan.PDF (Chapter 16)

\\Micrium\Software\uCOS-II\Doc\uCOS-II-CfgMan.PDF (Chapter 17)

Found in path(s):

\* /opt/cola/permits/1089556596\_1603953541.73/0/ucos-ii-master-zip/uCOS-II-master/Doc/README.TXT

No license file was found, but licenses were detected in source scan.

```

/*
*****
*****
*
*           uC/OS-II
*           The Real-Time Kernel
*
*           (c) Copyright 1992-2009, Micrium, Weston, FL
*           All Rights Reserved
*
* File   : uCOS_II.C
* By     : Jean J. Labrosse
* Version : V2.91
*
* LICENSING TERMS:
* -----
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*****
*****
*/

```

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\*\*\*\*\*

\*  
\* uC/OS-II  
\* The Real-Time Kernel  
\* MEMORY MANAGEMENT  
\*

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\*

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\* By : Jean J. Labrosse  
\* Version : V2.91  
\*

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\* The Real-Time Kernel  
\* MESSAGE MAILBOX MANAGEMENT  
\*

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\* By : Jean J. Labrosse  
\* Version : V2.91  
\*

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\*/

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\* The Real-Time Kernel  
\* SEMAPHORE MANAGEMENT  
\*  
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\* Version : V2.91  
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\*\*\*\*\*

\*  
\* uC/OS-II  
\* The Real-Time Kernel  
\* MESSAGE QUEUE MANAGEMENT

```

*
*
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*
*
* File   : OS_Q.C
* By     : Jean J. Labrosse
* Version : V2.91
*
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*****
*****
*/

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/*
*****
*****
*
*           uC/OS-II
*           The Real-Time Kernel
*           CORE FUNCTIONS
*
*
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*
*
* File   : OS_CORE.C
* By     : Jean J. Labrosse
* Version : V2.91
*
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*****
*****
*/

```



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\*\*\*\*\*

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\* The Real-Time Kernel  
\* EVENT FLAG MANAGEMENT  
\*

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\*

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\* DEBUGGER CONSTANTS  
\*

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\* By : Jean J. Labrosse  
\* Version : V2.91  
\*

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* licensing fee.
*****
*****
*/

```

Found in path(s):

```

* /opt/cola/permits/1089556596_1603953541.73/0/ucos-ii-master-zip/uCOS-II-master/Source/os_dbg_r.c

```

## 1.12 ffmpeg n4.2.4

### 1.12.1 Available under license :

# License

Most files in FFmpeg are under the GNU Lesser General Public License version 2.1 or later (LGPL v2.1+). Read the file `COPYING.LGPLv2.1` for details. Some other files have MIT/X11/BSD-style licenses. In combination the LGPL v2.1+ applies to FFmpeg.

Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac\_dsp\_gpl.asm`
  - `libavcodec/x86/idct\_mmx.c`
  - `libavfilter/x86/vf\_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make\_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/\*`
  - `tests/tiny\_ssim.c`
- the following filters in libavfilter:
  - `vf\_blackframe.c`
  - `vf\_boxblur.c`
  - `vf\_colormatrix.c`
  - `vf\_cover\_rect.c`

```
- `vf_cropdetect.c`  
- `vf_delogo.c`  
- `vf_eq.c`  
- `vf_find_rect.c`  
- `vf_fspp.c`  
- `vf_geq.c`  
- `vf_histeq.c`  
- `vf_hqdn3d.c`  
- `vf_interlace.c`  
- `vf_kerndeint.c`  
- `vf_mcdeint.c`  
- `vf_mpdecimate.c`  
- `vf_owdenoise.c`  
- `vf_perspective.c`  
- `vf_phase.c`  
- `vf_pp.c`  
- `vf_pp7.c`  
- `vf_pullup.c`  
- `vf_repeatfields.c`  
- `vf_sab.c`  
- `vf_smartblur.c`  
- `vf_spp.c`  
- `vf_stereo3d.c`  
- `vf_super2xsai.c`  
- `vf_tinterlace.c`  
- `vf_uspp.c`  
- `vsrc_mptestsrc.c`
```

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file ``COPYING.LGPLv3`` or, if you have enabled GPL parts, ``COPYING.GPLv3`` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

- \* The files ``libavcodec/jfdctfst.c``, ``libavcodec/jfdctint_template.c`` and ``libavcodec/jrevdct.c`` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- \* ``tests/reference.pnm`` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### ### Compatible libraries

The following libraries are under GPL:

- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### ### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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Version 2, June 1991

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

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes

2.2 and above 2.1.1 2001-now PSF yes

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=== src/compat.h src/compat-inl.h ===

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## 1.21 electron 9.4.1

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