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## Cycle, version 3.3.10

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## D3D12 Memory Allocator, version f128d39b7a95b4235bd228d231646278dc6c24b2

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## Data Compression Library (zlib), version 1.3.1

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## **ffmpeg**

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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/tests/swresample.c`
  - `tests/checkasm/\*`
  - `tests/tiny\_ssim.c`
- the following filters in libavfilter:
  - `signature\_lookup.c`
  - `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\_fsp.c`
  - `vf\_histeq.c`
  - `vf\_hqdn3d.c`
  - `vf\_kerndeint.c`
  - `vf\_lensfun.c` (GPL version 3 or later)
  - `vf\_mcdeint.c`
  - `vf\_mpdecimate.c`
  - `vf\_nnedi.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\_signature.c`
  - `vf\_smartblur.c`
  - `vf\_spp.c`
  - `vf\_stereo3d.c`
  - `vf\_super2xsai.c`
  - `vf\_tinterlace.c`
  - `vf\_uspp.c`
  - `vf\_vaguedenoiser.c`
  - `vsrc\_mp testsrc.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:

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- \* 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 version 2:

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

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

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedtls, RK MPI, 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.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

### ### 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.

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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.

\*\*\*\*\*

libavcodec/arm/jrevdct\_arm.S

C-like prototype :  
void j\_rev\_dct\_arm(DCTBLOCK data)

With DCTBLOCK being a pointer to an array of 64 'signed shorts'

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\*\*\*\*\*

libavcodec/arm/vp8dsp\_armv6.S

VP8 ARMv6 optimisations

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\*\*\*\*\*

libavcodec/x86/xvididct.asm

XVID MPEG-4 VIDEO CODEC

Conversion from gcc syntax to x264asm syntax with modifications  
by Christophe Gisquet <christophe.gisquet@gmail.com>

===== SSE2 inverse discrete cosine transform =====

Copyright(C) 2003 Pascal Massimino <skal@planet-d.net>

Conversion to gcc syntax with modifications  
by Alexander Strange <astrange@ithinksw.com>

Originally from dct/x86\_asm/fdct\_sse2\_skal.asm in Xvid.

Vertical pass is an implementation of the scheme:  
Loeffler C., Ligtenberg A., and Moschytz C.S.:  
Practical Fast 1D DCT Algorithm with Eleven Multiplications,  
Proc. ICASSP 1989, 988-991.

Horizontal pass is a double 4x4 vector/matrix multiplication,  
(see also Intel's Application Note 922:  
<http://developer.intel.com/vtune/cbts/strmsimd/922down.htm>  
Copyright (C) 1999 Intel Corporation)

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More details at <http://skal.planet-d.net/coding/dct.html>

===== MMX and XMM forward discrete cosine transform =====

Copyright(C) 2001 Peter Ross <pross@xvid.org>

Originally provided by Intel at AP-922

<http://developer.intel.com/vtune/cbts/strmsimd/922down.htm>

(See more app notes at <http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm>)  
but in a limited edition.

New macro implements a column part for precise iDCT

The routine precision now satisfies IEEE standard 1180-1990.

Copyright(C) 2000-2001 Peter Gubanov <peter@elecard.net.ru>

Rounding trick Copyright(C) 2000 Michel Lespinasse <walken@zoy.org>

<http://www.elecard.com/peter/idct.html>

<http://www.linuxvideo.org/mpeg2dec/>

These examples contain code fragments for first stage iDCT 8x8  
(for rows) and first stage DCT 8x8 (for columns)

conversion to gcc syntax by Michael Niedermayer

=====

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\*\*\*\*\*

libavformat/oggparsetheora.c

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\*\*\*\*\*

libavutil/x86/x86inc.asm

x86inc.asm: x264asm abstraction layer

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libavcodec/jrevdct.c

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\*\*\*\*\*

```
libavcodec/fft_fixed_32.c
libavcodec/fft_init_table.c
libavcodec/fft_table.h
libavcodec/mips/aacdec_mips.h
libavcodec/mips/aacsbr_mips.h
libavcodec/mips/compute_antialias_fixed.h
libavcodec/mips/compute_antialias_float.h
libavutil/fixed_dsp.c
libavutil/fixed_dsp.h
libavutil/mips/libm_mips.h
libavutil/softfloat_tables.h
```

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\*\*\*\*\*

libavformat/oggdec.c  
libavformat/oggdec.h  
libavformat/oggparseoggm.c  
libavformat/oggparsevorbis.c

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fontconfig/fc-case/CaseFolding.txt

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---

fontconfig/src/fcatomic.h

```
/*
 * Mutex operations. Originally copied from HarfBuzz.
 *
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```

---

fontconfig/src/fcfoundry.h

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```
/*
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```

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```
* /
```

---

```
fontconfig/src/fcmd5.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.
*
* Equivalent code is available from RSA Data 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.
* /
```

---

```
fontconfig/src/fcmutex.h
```

```
/*
* Atomic int and pointer operations. Originally copied from HarfBuzz.
*
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* Copyright © 2011,2012,2013 Google, Inc.
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* /
```

---

```
fontconfig/src/ftglue.[ch]
```

```
/* ftglue.c: Glue code for compiling the OpenType code from
 *           FreeType 1 using only the public API of FreeType 2
 *
 * By David Turner, The FreeType Project (www.freetype.org)
 *
 * This code is explicitly put in the public domain
 *
 * =====
 *
 * the OpenType parser codes was originally written as an extension to
 * FreeType 1.x. As such, its source code was embedded within the library,
 * and used many internal FreeType functions to deal with memory and
 * stream i/o.
 *
 * When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
 * which basically means that some macro tricks were performed in order to
 * directly access FT2 _internal_ functions.
 *
 * these functions were never part of FT2 public API, and _did_ change between
 * various releases. This created chaos for many users: when they upgraded the
 * FreeType library on their system, they couldn't run Gnome anymore since
 * Pango refused to link.
 *
 * Very fortunately, it's possible to completely avoid this problem because
 * the FT_StreamRec and FT_MemoryRec structure types, which describe how
 * memory and stream implementations interface with the rest of the font
 * library, have always been part of the public API, and never changed.
 *
 * What we do thus is re-implement, within the OpenType parser, the few
 * functions that depend on them. This only adds one or two kilobytes of
 * code, and ensures that the parser can work with _any_ version
 * of FreeType installed on your system. How sweet... !
 *
```

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```
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
* - David Turner
* - The FreeType Project (www.freetype.org)
*
* PS: This "glue" code is explicitly put in the public domain
* /
```

## forkfd

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## **hunspell**

Version 1.1

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```
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* http://modp.com/release/base64
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## Recurrent neural network for audio noise reduction

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## Secure Hash Algorithm SHA-1

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## Secure Hash Algorithm SHA-3 - brg\_endian, version <https://github.com/BrianGladman/sha/> commit 4b9e13ead2c5b5e41ca27c65de4dd69ae0bac228

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## Secure Hash Algorithm SHA-3 - Keccak, version 3.2

Guido Bertoni, Joan Daemen, Michaël Peeters and Gilles Van Assche.  
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## SipHash Algorithm

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## **Volk Meta loader for Vulkan API**

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## xdg-user-dirs

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