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- \*  
\* cvt - IEEE floating point formatting routines.  
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'zlib' general purpose compression library

version 1.2.3, July 18th, 2005

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```
// EnumString - A utility to provide stringizing support for C++ enums
// Author: Francis Xavier Joseph Pulikotil
//
```

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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/txi2pod.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`

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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

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## ### 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. But note that if you enable any of these libraries the resulting binary will be under a complex license mix that is more restrictive than the LGPL and that may result in additional obligations. It is possible that these restrictions cause the resulting binary to be unredistributable.

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## 1.12 gd 2.0.35

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## 1.21 pcre 8.42

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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