

R&S® Oscilloscopes

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University of Illinois at Urbana-Champaign

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Version 2, June 1991

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December 9, 2010

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MD4 (RFC-1320) message digest.

Modified from MD5 code < by Andrey Panin pazke@donpac.ru >

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Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.
<http://portal.acm.org/citation.cfm?id=129906>
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27287199

27287880

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dom-distiller-js

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- 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. 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.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are

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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)
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.
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Rounding trick Copyright(C) 2000 Michel Lespinasse <walken@zoy.org>;
http://www.eleccard.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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*****
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/mips/amrwbdec_mips.c
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libavcodec/mips/celp_math_mips.c

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Author: Stanislav Ocovaj (socovaj@mips.com)

Author: Zoran Lukic (zoranl@mips.com)

Optimized MDCT/IMDCT and FFT transforms

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libavcodec/mips/acelp_filters_mips.c

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various filters for ACELP-based codecs optimized for MIPS

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libavcodec/jfdctfst.c
libavcodec/jfdctint_template.c

libavcodec/jrevdct.c

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libavcodec/fft_fixed_32.c

libavcodec/fft_init_table.c

libavcodec/fft_table.h

libavcodec/mdct_fixed_32.c

libavcodec/mips/aacdec_mips.c

libavcodec/mips/aacdec_mips.h

libavcodec/mips/aacpsdsp_mips.c

libavcodec/mips/aacsbr_mips.c

libavcodec/mips/aacsbr_mips.h

libavcodec/mips/amrwbdec_mips.h

libavcodec/mips/compute_antialias_fixed.h

libavcodec/mips/compute_antialias_float.h

libavcodec/mips/lsp_mips.h

libavcodec/mips/sbrdsp_mips.c

libavutil/fixed_dsp.c

libavutil/fixed_dsp.h

libavutil/mips/float_dsp_mips.c

libavutil/mips/libm_mips.h

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libavutil/softfloat_tables.h
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GVR Android SDK

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curl
*****

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dynamic_annotations
*****

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Following applies to:

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./test/schur_real.cpp

./test/prec_inverse_4x4.cpp

./test/smallvectors.cpp

./test/redux.cpp

./test/special_numbers.cpp

./test/adjoint.cpp

./test/resize.cpp

```
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
./test/eigensolver_generic.cpp
./test/householder.cpp
./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/sparseLM.cpp
./test/upperbidiagonalization.cpp
./test/nomalloc.cpp
./test/packetmath.cpp
./test/jacobisvd.cpp
./test/geo_transformations.cpp
./test/swap.cpp
./test/eigensolver_selfadjoint.cpp
./test/inverse.cpp
./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/product_extra.cpp
./test/sparse_solver.h
./test/mapstride.cpp
./test/mapped_matrix.cpp
./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/denseLM.cpp
./test/stdvector.cpp
./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/zerosized.cpp
./test/exceptions.cpp
./test/vectorwiseop.cpp
./test/cwiseop.cpp
./test/basicstuff.cpp
./test/product_trmm.cpp
./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stdvector_overload.cpp
./test/stable_norm.cpp
./test/umeyama.cpp
./test/unalignedcount.cpp
./test/triangular.cpp
./test/product_mmtr.cpp
./test/sparse_basic.cpp
./test/sparse_vector.cpp
```



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./test/meta.cpp
./test/real_qz.cpp
./test/ref.cpp
./test/eigensolver_complex.cpp
./test/cholmod_support.cpp
./test/conjugate_gradient.cpp
./test/sparse.h
./test/simplicial_cholesky.cpp
./test/bicgstab.cpp
./test/dynalloc.cpp
./test/product_notemporary.cpp
./test/geo_hyperplane.cpp
./test/lu.cpp
./test/qr.cpp
./test/hessenberg.cpp
./test/sizeof.cpp
./test/main.h
./test/selfadjoint.cpp
./test/permutationmatrices.cpp
./test/superlu_support.cpp
./test/qtvector.cpp
./test/geo_homogeneous.cpp
./test/determinant.cpp
./test/array_reverse.cpp
./test/unalignedassert.cpp
./test/stdlist.cpp
./test/product_symm.cpp
./test/corners.cpp
./test/dontalign.cpp
./test/visitor.cpp
./test/geo_alignedbox.cpp
./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/eigensolver_generalized_real.cpp
./test/umfpack_support.cpp
./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/array_replicate.cpp
./test/geo_parametrizedline.cpp
./test/eigen2/eigen2_unalignedassert.cpp
./test/eigen2/eigen2_prec_inverse_4x4.cpp
./test/eigen2/eigen2_alignedbox.cpp
./test/eigen2/eigen2_sparse_product.cpp
./test/eigen2/eigen2_meta.cpp
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./test/eigen2/eigen2_svd.cpp
./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_qr.cpp
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./test/eigen2/eigen2_cwiseop.cpp
./test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
./test/eigen2/eigen2_smallvectors.cpp
./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_sparse_solvers.cpp
./test/eigen2/eigen2_hyperplane.cpp
./test/eigen2/eigen2_eigensolver.cpp
./test/eigen2/eigen2_linearstructure.cpp
./test/eigen2/eigen2_sizeof.cpp
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./test/eigen2/eigen2_swap.cpp
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./test/eigen2/main.h
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./test/eigen2/eigen2_product_large.cpp
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./test/eigen2/eigen2_cholesky.cpp
./test/eigen2/eigen2_determinant.cpp
./test/eigen2/eigen2_sum.cpp
./test/eigen2/eigen2_inverse.cpp
./test/eigen2/eigen2_regression.cpp
./test/eigen2/eigen2_product_small.cpp
./test/eigen2/eigen2_qtvector.cpp
./test/eigen2/eigen2_sparse_vector.cpp
./test/eigen2/product.h
./test/eigen2/eigen2_sparse_basic.cpp
./test/eigen2/eigen2_bug_132.cpp
./test/array.cpp
./test/product_syrk.cpp
./test/commainitializer.cpp
./test/conservative_resize.cpp
./test/qr_colpivoting.cpp
./test/nullary.cpp
./test/bandmatrix.cpp
./test/pastix_support.cpp
./test/product.h
./test/block.cpp
./test/vectorization_logic.cpp
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./test/jacobi.cpp
./test/diagonal.cpp
./test/schur_complex.cpp
./test/sizeoverflow.cpp
./bench/BenchTimer.h
./bench/benchFFT.cpp
./bench/eig33.cpp
./bench/spbench/spbenchsolver.h
./bench/spbench/spbenchstyle.h
./lapack/complex_double.cpp
./lapack/cholesky.cpp
./lapack/lapack_common.h
./lapack/eigenvalues.cpp
./lapack/single.cpp
./lapack/lu.cpp
./lapack/complex_single.cpp
./lapack/double.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/binary_library.h
./demos/mix_eigen_and_c/example.c
./demos/mandelbrot/mandelbrot.cpp
./demos/mandelbrot/mandelbrot.h
./demos/opengl/icosphere.cpp
./demos/opengl/icosphere.h
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./demos/opengl/trackball.h
./demos/opengl/gpuhelper.h
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./unsupported/test/jacobisvd.cpp
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./unsupported/test/bdcsvd.cpp
./unsupported/test/matrix_exponential.cpp
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./unsupported/test/matrix_functions.h
./unsupported/test/svd_common.h
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./unsupported/test/alignedvector3.cpp
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./Eigen/src/Core/ArrayWrapper.h
./Eigen/src/Core/Swap.h
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./test/metis_support.cpp
 ./test/sparselu.cpp
 ./unsupported/test/mpreal/mpreal.h
 ./unsupported/Eigen/src/IterativeSolvers/IterationController.h
 ./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h
 ./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
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./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h

```
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./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h
./unsupported/Eigen/src/LevenbergMarquardt/LMpar.h
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GL

Mesa Component Licenses

Component Location Primary Author License

Main Mesa code src/ mesa/ Brian Paul Mesa (MIT)

Device drivers src/ mesa/ drivers/ * See drivers See drivers

Ext headers include/ GL/ glxext.h SGI SGI Free B

include/ GL/ glxext.h

GLUT src/ glut/ Mark Kilgard Mark's copyright

GLEW src/ glew-1.13.0 Nigel Stewart Modified BSD

Mesa GLU library src/glu/mesa/ Brian Paul GNU-LGPL
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gradle

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java/android_libs/exoplayer

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java_src/android_libs/protobuf_nano/v2

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jpeg

(extracted from src/README)

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libunwind

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libxml

Libxml2, an XML C Parser

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LodePNG

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mongoose

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objective_c/gtm_session_fetcher
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openctm

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xmpmeta

xmpmeta. A fast XMP metadata parsing and writing library.

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Glenn Randers-Pehrson

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September 29, 2017

libprotobuf-mutator

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Project Homepage: <https://github.com/google/libprotobuf-mutator>

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libudev

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url\_parse

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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xdg-user-dirs

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