

R&S® ZNA, R&S® ZNB, R&S® ZNBT,  
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Vector Network Analyzer

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Version 20.00

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zlib	0.6.0	zlib License
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added two files in devpackage and changed cmakefile.txt for find\_package

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Version 3, 29 June 2007

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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

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Project Homepage: <https://developers.google.com/ar/develop/java/enable-arcore#dependencies>

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Version 2.0, January 2004

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Breakpad, An open-source multi-platform crash reporting  
system

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Brotli

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C++ port of zxcvbn, an advanced password strength estimation library.

Project Homepage: <https://github.com/rianhunter/zxcvbn-cpp>

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Closure compiler

Project Homepage: <http://github.com/google/closure-compiler>

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d3

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dav1d is an A V1 decoder :)

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dom-distiller -js

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dynamic annotations

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\* Author: Kostya Serebryany

\* /

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- `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_fspp.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_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 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
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`--enable-nonfree` to configure. This will cause the resulting binary to be
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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/mips/acelp\_vectors\_mips.c  
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adaptive and fixed codebook vector operations for ACELP-based codecs optimized for MIPS

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libavcodec/mips/amrbdec\_mips.c

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libavcodec/mips/celp\_filters\_mips.c

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various filters for CELP-based codecs optimized for MIPS

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libavcodec/mips/celp\_math\_mips.c

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Math operations optimized for MIPS

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Optimized MDCT/IMDCT and FFT transforms
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libavcodec/mips/mpegauddsp_mips_float.c
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MPEG Audio decoder optimized for MIPS floating-point architecture

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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>  
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More details at <http://skal.planet-d.net/coding/dct.html>  
===== MMX and XMM forward discrete cosine transform =====  
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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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libavutil/avsscanf.c

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libswresample/swresample.h

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libswresample/version.h

Version macros.

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libavcodec/jfdctfst.c  
libavcodec/jfdctint\_template.c  
libavcodec/jrevdct.c

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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
libavutil/softfloat_tables.h
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```
FidelityFX Single Pass Downsampler
```

```
Project Homepage: https://github.com/GPUOpen-Effects/FidelityFX-SPD
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curl
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dynamic_annotations
*****

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eigen3
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```

```

-----
Following applies to:
./test/mapstaticmethods.cpp
./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
./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
./test/eigen2/eigen2_nomalloc.cpp
./test/eigen2/eigen2_visitor.cpp
./test/eigen2/eigen2_packetmath.cpp
./test/eigen2/eigen2_svd.cpp
./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_qr.cpp
./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
./test/eigen2/eigen2_parametrizedline.cpp
./test/eigen2/eigen2_lu.cpp
./test/eigen2/eigen2_adjoint.cpp
./test/eigen2/eigen2_geometry.cpp
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./test/eigen2/eigen2_newstdvector.cpp
./test/eigen2/eigen2_submatrices.cpp
./test/eigen2/sparse.h
./test/eigen2/eigen2_swap.cpp
./test/eigen2/eigen2_triangular.cpp
./test/eigen2/eigen2_basicstuff.cpp
./test/eigen2/gsl_helper.h
./test/eigen2/eigen2_dynalloc.cpp
./test/eigen2/eigen2_array.cpp
./test/eigen2/eigen2_map.cpp
./test/eigen2/main.h
./test/eigen2/eigen2_miscmatrices.cpp
./test/eigen2/eigen2_product_large.cpp
./test/eigen2/eigen2_first_aligned.cpp
```

```
./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
./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
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./demos/mandelbrot/mandelbrot.h
./demos/opengl/icosphere.cpp
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./demos/opengl/camera.cpp
./demos/opengl/quaternion_demo.h
./demos/opengl/camera.h
./demos/opengl/trackball.h
./demos/opengl/gpuhelper.h
```

```
./demos/opengl/trackball.cpp
./demos/opengl/gpuhelper.cpp
./demos/opengl/quaternion_demo.cpp
./debug/gdb/printers.py
./unsupported/test/minres.cpp
./unsupported/test/openglsupport.cpp
./unsupported/test/jacobisvd.cpp ./unsupported/test/dgmres.cpp
./unsupported/test/matrix_square_root.cpp
./unsupported/test/bdcsvd.cpp
./unsupported/test/matrix_exponential.cpp
./unsupported/test/forward_adolc.cpp
./unsupported/test/polynomialsolver.cpp
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./unsupported/Eigen/src/IterativeSolvers/GMRES.h
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
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./unsupported/Eigen/src/Splines/SplineFitting.h
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./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
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./Eigen/src/Eigen2Support/Cwise.h
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./Eigen/src/Eigen2Support/Geometry/Quaternion.h
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h
./Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
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./Eigen/src/Eigen2Support/Geometry/Translation.h
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./Eigen/src/misc/SparseSolve.h
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./Eigen/src/SparseCore/SparseSelfAdjointView.h
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./Eigen/src/SparseCore/AmbiVector.h
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./Eigen/src/Eigenvalues/ComplexEigenSolver.h
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./Eigen/src/LU/FullPivLU.h
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./Eigen/src/Geometry/Quaternion.h
./Eigen/src/Geometry/EulerAngles.h
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./Eigen/src/Geometry/ParametrizedLine.h
./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/arch/Geometry_SSE.h
./Eigen/src/Geometry/Umeyama.h
./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/Translation.h
./Eigen/src/Geometry/Scaling.h
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./Eigen/src/Geometry/Transform.h
./Eigen/src/plugins/BlockMethods.h
./Eigen/src/plugins/CommonCwiseUnaryOps.h
```

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./Eigen/src/Householder/BlockHouseholder.h
./Eigen/src/Core/VectorBlock.h
./Eigen/src/Core/Matrix.h
./Eigen/src/Core/Ref.h
./Eigen/src/Core/SelfAdjointView.h
./Eigen/src/Core/MathFunctions.h
./Eigen/src/Core/GlobalFunctions.h
./Eigen/src/Core/MapBase.h
./Eigen/src/Core/EigenBase.h
./Eigen/src/Core/GenericPacketMath.h
./Eigen/src/Core/NestByValue.h
./Eigen/src/Core/CwiseUnaryOp.h
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./Eigen/StdList
./Eigen/StdDeque
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./blas/complex_single.cpp
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```

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```
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Following applies to:

```
./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
./Eigen/src/OrderingMethods/Amd.h
./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
```

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Version 3, 29 June 2007

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./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h

./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h

./unsupported/Eigen/src/LevenbergMarquardt/LMpar.h

./unsupported/Eigen/src/LevenbergMarquardt/LMqrsolv.h

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freetype2

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2006-Jan-27

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David Turner, Robert Wilhelm, and Werner Lemberg

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## 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 include/ GL/ glxext.h	SGI	SGI Free B
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
SGI GLU library	src/ glu/ sgi/	SGI	SGI Free B
demo programs	progs/ demos/	various	see source files
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java/android\_libs/protobuf\_nano

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javascript/jquery\_ui

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/exoplayer  
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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libunwind

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objective\_c/gtm\_session\_fetcher

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jsoncpp

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IAccessible2 C OM interfaces for accessibility

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icu

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libvp x

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libyuv

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linux-syscall-support

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Lottie Web

Project Homepage: <https://github.com/airbnb/lottie-web>

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Oculus SDK for Windows

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One Euro Filter

Project Homepage: <http://cristal.univ-lille.fr/~casiez/leuro/>

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opus

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PLY (Py thon Lex-Y acc)

Project Homepage: <http://www.dabeaz.com/ply/ply-3.11.tar.gz>

PLY (Python Lex-Yacc) Version 3.4

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pyjson5

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pywebsocket et3

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Shader c

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Shaka Play er

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Contains code from <https://github.com/mozilla/language-mapping-list>

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Project Homepage: <https://github.com/google/shell-encryption>

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six

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Snappy: A fast compressor/decompressor

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tcmalloc

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Project Homepage: <http://git.linuxtv.org/v4l-utils.git>

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```

```
&lt;signature of Ty Coon&gt;; 1 April 1990
Ty Coon, President of Vice
```

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V8 JavaScript Engine

Project Homepage: <http://code.google.com/p/v8>

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WDS

Project Homepage: <https://github.com/01org/wds>

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Version 2.1, February 1999

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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xdg-user -dirs

Project Homepage: <http://www.freedesktop.org/wiki/Software/xdg-user-dirs>

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## D Intel(R) Math Kernel Library - 2019 Update 5 for Windows\* Target

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