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Phase Noise Analyzer

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added two files in devpackage and changed cmakefile.txt for find_package

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Portions of HDF5 were developed with support from the Lawrence Berkeley National Laboratory (LBNL) and the United States Department of Energy under Prime Contract No. DE-AC02-05CH11231.

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

Project Homepage: http://software.blackmagicdesign.com/DeckLink/v10.7/Blackmagic_DeckLink_SDK

Extracted from mac/include/DeckLinkAPI.h:

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Chrome Custom Tabs - Example and Usage

Project Homepage: <https://chromium.googlesource.com/external/github.com/GoogleChrome/custom-t>

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ChromeVox

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Chromium OS system API

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David M. Gay's floating point routines

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FlatBuffers

Project Homepage: <https://github.com/google/flatbuffers>

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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
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./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
./demos/mandelbrot/mandelbrot.cpp
./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
```

```
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./demos/opengl/gpuhelper.h
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./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
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./unsupported/test/levenberg_marquardt.cpp
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./unsupported/test/kronecker_product.cpp
./unsupported/test/splines.cpp
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./unsupported/bench/bench_svd.cpp
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./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h
./unsupported/Eigen/src/IterativeSolvers/GMRES.h
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
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./unsupported/Eigen/src/IterativeSolvers/MINRES.h
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./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h
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./unsupported/Eigen/src/Skyline/SkylineMatrixBase.h
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./unsupported/Eigen/NumericalDiff
./unsupported/Eigen/Skyline
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./COPYING.README
./LICENSE
./LICENSE
./LICENSE
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./Eigen/src/Eigen2Support/LeastSquares.h
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./Eigen/src/Jacobi/Jacobi.h
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./Eigen/src/misc/SparseSolve.h
./Eigen/src/misc/Solve.h
./Eigen/src/misc/Image.h
./Eigen/src/SparseCore/SparseColEtree.h
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./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h
./Eigen/src/SparseCore/SparseDot.h
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./Eigen/src/SparseCore/SparseBlock.h
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./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h
./Eigen/src/SparseCore/SparseTriangularView.h
./Eigen/src/SparseCore/SparseView.h
./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/TriangularSolver.h
./Eigen/src/SparseCore/SparseSelfAdjointView.h
```

```
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./Eigen/src/SparseCore/AmbiVector.h
./Eigen/src/SparseCore/ConservativeSparseSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h
./Eigen/src/SparseCore/SparsePermutation.h
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./Eigen/src/Eigenvalues/ComplexEigenSolver.h
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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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gradle

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java/android_libs/exoplayer

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java_src/android_libs/exoplayer

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jpeg

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libxml

Libxml2, an XML C Parser

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lodepng

LodePNG

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minizip

zlib

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mongoose

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objective_c/gtm_session_fetcher

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openctm

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LevelDB: A Fast Persistent Key-Value Store

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NSBezierPath additions from Sean Patrick O'Brien

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NVidia Control X Extension Library

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Project Homepage: <https://github.com/khaledhosny/ots.git>

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Quick Color Management System

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qcms

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SPIR-V Tools

Project Homepage: <https://github.com/KhronosGroup/SPIRV-Tools.git>

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V8 JavaScript Engine

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

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Vulkan API headers

Project Homepage: <https://github.com/LunarG/VulkanTools/tree/master/include/vulkan>

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Web Animations JS

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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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entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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WebM container parser and writer.

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WebP image encoder/decoder

Project Homepage: <http://developers.google.com/speed/webp>

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Windows Template Library (WTL)

Project Homepage: <http://wtl.sourceforge.net/>

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d3

Project Homepage: <https://github.com/mbostock/d3>

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dom-distiller-js

Project Homepage: <https://github.com/chromium/dom-distiller>

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- `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- the X11 grabber in `libavdevice/x11grab.c`
- 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:
- `f_ebur128.c`
- `vf_blackframe.c`
- `vf_boxblur.c`
- `vf_colormatrix.c`
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- `vf_croptdetect.c`
- `vf_delogo.c`
- `vf_eq.c`
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- `vf_geq.c`
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```
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- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid
```

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libavcodec/arm/vp8dsp_armv6.S

VP8 ARMv6 optimisations

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libavformat/oggparsespeex.c

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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.
Copyright (C) 2000-2001 Peter Gubanov <peter@eleccard.net.ru>;
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
=====
This file is part of FFmpeg.
```



```

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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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*****

libswresample/version.h
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*****

libavcodec/faandct.c
Floating point AAN DCT
this implementation is based upon the IJG integer AAN DCT (see jfdctfst.c)

```

```

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*****
libswresample/swresample.h
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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

libavutil/softfloat_tables.h

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libavformat/oggdec.c

libavformat/oggdec.h

libavformat/oggparseogm.c

libavformat/oggparsevorbis.c

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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 jconfig.h is distributed under the MPL 1.1/GPL 2.0/LGPL 2.1 tri-license. jmorecfg.h contains modifications, which are distributed under the Netscape Public License.

libjpeg-turbo

Project Homepage: <https://github.com/libjpeg-turbo/libjpeg-turbo/>

libjpeg-turbo Licenses

=====

libjpeg-turbo is covered by three compatible BSD-style open source licenses:

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=====

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Glenn Randers-Pehrson

glennrp at users.sourceforge.net

May 26, 2016

libsecret

Project Homepage: <https://git.gnome.org/browse/libsecret/>

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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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```
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Ty Coon, President of Vice
That's all there is to it!
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```

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libvpx

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libxslt

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libyuv

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mach_override
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minigbm

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mt19937ar

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`

or `init_by_array(init_key, key_length)`.

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open-vcdiff

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simplejson

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url_parse

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usrsrcp

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v4l-utils

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x86inc

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```

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;*****
; This is a header file for the x264ASM assembly language, which uses

```

```
; NASM/YASM syntax combined with a large number of macros to provide easy
; abstraction between different calling conventions (x86_32, win64, linux64).
; It also has various other useful features to simplify writing the kind of
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xdg-user-dirs

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Stephen Polkowski (x86 instruction patches)

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```
zlib
Project Homepage: http://zlib.net/
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010
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