R&S®FSV3000 V2.20
Signal and Spectrum Analyzer
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Chromium	100.0.4852.0	BSD 3-clause "New" or "Revised" License
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vega-scene-graph	4.9.4	BSD 3-clause "New" or "Revised" License
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added two files in devpackage and changed cmakelist.txt for find_package

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Almost Native Graphics Layer Engine

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

Project Homepage: https://chromium.googlesource.com/breakpad/breakpad

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Brotli

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

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

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Chromium OS system API

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Closure compiler

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Compact Encoding Detection

Project Homepage: https://github.com/google/compact_enc_det

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Compact Language Detector v3 Project Homepage:
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dav1d is an AV1 decoder :)

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dom-distiller-js

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Project Homepage: https://github.com/googlei18n/emoji-segmenter

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Expat XML Parser

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 in the files

- `libavcodec/x86/flac_dsp_gpl.asm` - `libavcodec/x86/idct_mmx.c` -
- the following building and testing tools
  - `compat/solaris/make_sunver.pl` - `doc/t2h.pm` - `doc/texi2pod.pl` -
  - `tests/checkasm/*` - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c` - `vf_blackframe.c` - `vf_boxblur.c` -
  - `vf_cover_rect.c` - `vf_cropdetect.c` - `vf_delogo.c` - `vf_eq.c` -
  - `vf_fspp.c` - `vf_histeq.c` - `vf_hqdn3d.c` - `vf_kerndeint.c` -
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  - `vf_pullup.c` - `vf_repeatfields.c` - `vf_sab.c` - `vf_signature.c`
-
  - `vf_spp.c` - `vf_stereo3d.c` - `vf_super2xsai.c` - `vf_tinterlace.c`
-
  - `vf_vaguedenoiser.c` - `vsrc_mptestsrc.c`
Should you, for whatever reason, prefer to use version 3 of the (L)GPL,
then
 configure parameter `--enable-version3` will activate this licensing
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handful of
 under other licensing terms, namely: * The files
`libavcodec/jfdctfst.c`,
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 * `tests/reference.pnm` is under the expat license.

 ## External libraries

 FFmpeg can be combined with a number of external libraries, which
sometimes
 the licensing of binaries resulting from the combination. ### Compatible

 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

by passing `--enable-gpl` to configure. The following libraries are
under LGPL
 3:

 - gmp - libaribb24 - liblensfun When combining them with FFmpeg, use the
 option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

 The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the
Apache
 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but
not
 version 3 of those licenses. So to combine these libraries with FFmpeg,
the
 version needs to be upgraded by passing `--enable-version3` to
configure. The
 library is under the GPL v3, to combine it with FFmpeg, the options
 and `--enable-version3` have to be passed to configure to upgrade FFmpeg
to the
 v3.

 ### Incompatible libraries

 There are certain libraries you can combine with FFmpeg whose licenses
are not
 with the GPL and/or the LGPL. If you wish to enable these libraries,
even in
 that their license may be incompatible, pass `--enable-nonfree` to
configure.
 will cause the resulting binary to be unredistributable. The Fraunhofer
FDK AAC
 OpenSSL libraries are under licenses which are incompatible with the
GPLv2 and
 To the best of our knowledge, they are compatible with the LGPL.

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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/arm/vp8dsp_armv6.S

 VP8 ARMv6 optimisations

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libavcodec/mips/acelp_vectors_mips.c

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 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 OF SUCH DAMAGE. Author: Stanislav Ocovaj (socovaj@mips.com) Author: Zoran Lukic
 Optimized MDCT/IMDCT and FFT transforms

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 ****
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 libavcodec/mips/mpegaudiodsp_mips_float.c

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*****************************************************************************
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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)
 Pascal Massimino <skal@planet-d.net>

 Conversion to gcc syntax with modifications by Alexander Strange

 Originally from dct/x86_asm/fdct_sse2_skal.asm in Xvid. Vertical pass is
an
 of the scheme:
  Loeffler C., Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT
Algorithm
  Eleven Multiplications, Proc. ICASSP 1989, 988-991.

 Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
Intel's
 Note 922:
  http://developer.intel.com/vtune/cbts/strmsimd/922down.htm Copyright
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  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
 at AP-922 http://developer.intel.com/vtune/cbts/strmsimd/922down.htm
(See more
 notes at http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm)
but in a
 edition. New macro implements a column part for precise iDCT The routine
 now satisfies IEEE standard 1180-1990. Copyright(C) 2000-2001 Peter
Gubanov

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
 stage DCT 8x8 (for columns) conversion to gcc syntax by Michael
Niedermayer

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 libavformat/oggparsetheora.c

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 libavutil/avsscanf.c

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 libswresample/version.h Version macros.

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 libavcodec/mips/aacdec_mips.c libavcodec/mips/aacdec_mips.h
 libavcodec/mips/aacsbr_mips.c libavcodec/mips/aacsbr_mips.h

libavcodec/mips/amrwbdec_mips.h
libavcodec/mips/compute_antialias_fixed.h
 libavcodec/mips/lsp_mips.h libavcodec/mips/sbrdsp_mips.c
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 libavformat/oggdec.c libavformat/oggdec.h libavformat/oggparseogm.c

libavformat/oggparsevorbis.c

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   or table, the facility still operates, and performs whatever part of
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Project Homepage: http://android-
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google-glog's symbolization library

Project Homepage: https://github.com/google/glog

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GVR Android SDK

Project Homepage: https://github.com/googlevr/gvr-android-sdk

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./test/geo_alignedbox.cpp ./test/diagonalmatrices.cpp
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./test/eigen2/eigen2_parametrizedline.cpp
 ./test/eigen2/eigen2_adjoint.cpp ./test/eigen2/eigen2_geometry.cpp
 ./test/eigen2/eigen2_newstdvector.cpp
./test/eigen2/eigen2_submatrices.cpp
 ./test/eigen2/eigen2_swap.cpp ./test/eigen2/eigen2_triangular.cpp
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 ./test/eigen2/eigen2_regression.cpp

 ./test/eigen2/eigen2_product_small.cpp ./test/eigen2/eigen2_qtvector.cpp
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 ./lapack/single.cpp ./lapack/lu.cpp ./lapack/complex_single.cpp
 ./demos/mix_eigen_and_c/binary_library.cpp
 ./demos/mix_eigen_and_c/example.c ./demos/mandelbrot/mandelbrot.cpp
 ./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h
 ./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h
 ./demos/opengl/gpuhelper.h ./demos/opengl/trackball.cpp
 ./demos/opengl/quaternion_demo.cpp ./debug/gdb/printers.py
 ./unsupported/test/openglsupport.cpp ./unsupported/test/jacobisvd.cpp

 ./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp
 ./unsupported/test/matrix_exponential.cpp
./unsupported/test/forward_adolc.cpp
 ./unsupported/test/matrix_function.cpp
./unsupported/test/sparse_extra.cpp
 ./unsupported/test/svd_common.h ./unsupported/test/FFTW.cpp
 ./unsupported/test/autodiff.cpp ./unsupported/test/gmres.cpp
 ./unsupported/test/levenberg_marquardt.cpp
./unsupported/test/matrix_power.cpp
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 ./unsupported/Eigen/IterativeSolvers
 ./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h
 ./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
 ./unsupported/Eigen/src/IterativeSolvers/MINRES.h
 ./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
 ./unsupported/Eigen/src/SparseExtra/MarketIO.h
 ./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
 ./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
 ./unsupported/Eigen/src/BVH/KdBVH.h
 ./unsupported/Eigen/src/AutoDiff/AutoDiffJacobian.h
```

```
./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFwd.h
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./unsupported/Eigen/src/SVD/SVDBase.h
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./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h
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./unsupported/Eigen/src/Polynomials/Companion.h
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./unsupported/Eigen/src/Skyline/SkylineUtil.h
./unsupported/Eigen/src/Skyline/SkylineMatrix.h
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./Eigen/src/Eigen2Support/MathFunctions.h
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./Eigen/src/Eigen2Support/LeastSquares.h
./Eigen/src/Jacobi/Jacobi.h ./Eigen/src/misc/Kernel.h
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./Eigen/src/SparseCore/CompressedStorage.h
./Eigen/src/SparseCore/MappedSparseMatrix.h
./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
```

```
./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseVector.h
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./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h

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./Eigen/src/Core/SolveTriangular.h

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./Eigen/src/Core/arch/SSE/PacketMath.h
./Eigen/src/Core/arch/SSE/Complex.h
./Eigen/src/Core/arch/NEON/PacketMath.h
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./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h
./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
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./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/StdVector ./Eigen/Core
./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
./scripts/relicense.py
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./blas/level3_impl.h ./blas/single.cpp ./blas/level2_cplx_impl.h
./blas/Rank2Update.h ./blas/complex_single.cpp
./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
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 ./Eigen/src/Core/util/MKL_support.h ./Eigen/src/Cholesky/LLT_MKL.h
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freedom to
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   for individuals to use, which is precisely where it is most
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of a

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 and so on) of the specific operating system (if any) on which the
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interpreter
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Corresponding
 includes interface definition files associated with source files for the
work,
 the source code for shared libraries and dynamically linked subprograms
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    years and valid for as long as you offer spare parts or customer
support for
    product model, to give anyone who possesses the object code either (1)
a

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software
    for a price no more than your reasonable cost of physically performing
this
    of source, or (2) access to copy the Corresponding Source from a
network
    at no charge. c) Convey individual copies of the object code with a
copy of
    written offer to provide the Corresponding Source. This alternative is
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object
   with such an offer, in accord with subsection 6b. d) Convey the object
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place at
   further charge. You need not require recipients to copy the
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network
   the Corresponding Source may be on a different server (operated by you
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   directions next to the object code saying where to find the
Corresponding
   Regardless of what server hosts the Corresponding Source, you remain
   to ensure that it is available for as long as needed to satisfy these
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information must suffice to ensure that the continued functioning of the
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characterized), the Corresponding Source conveyed under this section
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by the Installation Information. But this requirement does not apply if
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nor any third party retains the ability to install modified object code
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work that has been modified or installed by the recipient, or for the
User
in which it has been modified or installed. Access to a network may be
denied
the modification itself materially and adversely affects the operation
of the
or violates the rules and protocols for communication across the
network.

  Corresponding Source conveyed, and Installation Information provided,
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 applies to: ./test/metis_support.cpp ./test/sparselu.cpp
 ./unsupported/Eigen/src/IterativeSolvers/IterationController.h
 ./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h
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    Discusses bugs, as well as engine internals, design issues, specific
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Component
 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
 SGI SGI Free B
          include/GL/glxext.h


 GLUT src/glut/ Mark Kilgard Mark's copyright


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src/glu/mesa/
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   library to compute square roots has a purpose that is entirely well-defined
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   function or table used by this function must be optional: if the application
   not supply it, the square root function must still compute square roots.)
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of
 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
 from the same place satisfies the requirement to distribute the source
code,
 though third parties are not compelled to copy the source along with the
object

  5. A program that contains no derivative of any portion of the
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is not
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  However, linking a "work that uses the Library" with the Library

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 significant if the work can be linked without the Library, or if the work is
 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
 lines or less in length), then the use of the object file is unrestricted,
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  Otherwise, if the work is a derivative of the Library, you may
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 lines or less in length), then the use of the object file is unrestricted,
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jsoncpp

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Khronos reference front-end for GLSL and ESSL

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LevelDB: A Fast Persistent Key-Value Store

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object
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 significant if the work can be linked without the Library, or if the
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  If such an object file uses only numerical parameters, data
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 structure layouts and accessors, and small macros and small inline
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   with the Library, with the complete machine-readable "work that uses
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   then relink to produce a modified executable containing the modified
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   definitions.) b) Use a suitable shared library mechanism for linking
with the
   A suitable mechanism is one that (1) uses at run time a
```

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

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

it, is called a "work that uses the Library". Such a work, in isolation,
is not
 derivative work of the Library, and therefore falls outside the scope of
this
  However, linking a "work that uses the Library" with the Library
 creates an executable that is a derivative of the Library (because it
contains
 of the Library), rather than a "work that uses the library". The
executable is
 covered by this License. Section 6 states terms for distribution of such
  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
 of the Library even though the source code is not. Whether this is true
is
 significant if the work can be linked without the Library, or if the
work is
 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
 lines or less in length), then the use of the object file is
unrestricted,
 of whether it is legally a derivative

 work. (Executables containing this object code plus portions of the
Library
 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
 containing that work also fall under Section 6, whether or not they are
linked
 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
 portions of the Library, and distribute that work under terms of your
choice,
 that the terms permit modification of the work for the customer's own
use and
 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
 You must supply a copy of this License. If the work during execution
displays
 notices, you must include the copyright notice for the Library among
them, as

as a reference directing the user to the copy of this License. Also, you must
 one of these things:
   a) Accompany the work with the complete corresponding machine-readable source
   for the Library including whatever changes were used in the work (which must
   distributed under Sections 1 and 2 above); and, if the work is an executable
   with the Library, with the complete machine-readable "work that uses the
   as object code and/or source code, so that the user can modify the Library
   then relink to produce a modified executable containing the modified Library.
   is understood that the user who changes the contents of definitions files in
   Library will not necessarily be able to recompile the application to use the
   definitions.) b) Use a suitable shared library mechanism for linking with the
   A suitable mechanism is one that (1) uses at run time a copy of the library
   present on the user's computer system, rather than copying library functions
   the executable, and (2) will operate properly with a modified version of the
   if the user installs one, as long as the modified version is
   with the version that the work was made with. c) Accompany the work with a
   offer, valid for at least three years, to give the same user the materials
   in Subsection 6a, above, for a charge no more than the cost of performing
   distribution. d) If distribution of the work is made by offering access to
   from a designated place, offer equivalent access to copy the above specified
   from the same place. e) Verify that the user has already received a copy of

   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
 from it. However, as a special exception, the materials to be distributed need
 include anything that is normally distributed (in either source or binary form)

the major components (compiler, kernel, and so on) of the operating
system on
 the executable runs, unless that component itself accompanies the
executable.
  It may happen that this requirement contradicts the license
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accompany the
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Library
 in an executable that you distribute.
  7. You may place library facilities that are a work based on the
 Library side-by-side in a single library together with other library
facilities
 covered by this License, and distribute such a combined library,
provided that
 separate distribution of the work based on the Library and of the other
library
 is otherwise permitted, and provided that you do these two things:
   a) Accompany the combined library with a copy of the same work based
on the
   uncombined with any other library facilities. This must be distributed
under
   terms of the Sections above. b) Give prominent notice with the
combined
   of the fact that part of it is a work based on the Library, and
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libsrtp

Project Homepage: https://github.com/cisco/libsrtp

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libudev

Project Homepage: http://www.freedesktop.org/wiki/Software/systemd/

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all
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table of
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   effort to ensure that, in the event an application does not supply
such
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its
   remains meaningful. (For example, a function in a library to compute
square
   has a purpose that is entirely well-defined independent of the
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 the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
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under the
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complete
 machine-readable source code, which must be distributed under the terms
of
 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
 from the same place satisfies the requirement to distribute the source
code,
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  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
 it, is called a "work that uses the Library". Such a work, in isolation,
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  However, linking a "work that uses the Library" with the Library
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law.

   If such an object file uses only numerical parameters, data
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object
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   Otherwise, if the work is a derivative of the Library, you may
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Any
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linked
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   6. As an exception to the Sections above, you may also combine or
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source
   for the Library including whatever changes were used in the work
(which must
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executable
   with the Library, with the complete machine-readable "work that uses
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   as object code and/or source code, so that the user can modify the
```

```
Library
   then relink to produce a modified

   executable containing the modified Library. (It is understood that the
user
   changes the contents of definitions files in the Library will not
necessarily
   able to recompile the application to use the modified definitions.) b)
Use a
   shared library mechanism for linking with the Library. A suitable
mechanism
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the
   computer system, rather than copying library functions into the
executable,
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   one, as long as the modified version is interface-compatible with the
version
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 BezierEasing - use bezier curve for transition easing function by Gaetan
 2014 - 2015 MIT License Credits: is based on Firefox's nsSMILKeySpline.cpp
 var spline = BezierEasing([0.25, 0.1, 0.25, 1.0]) spline.get(x) =>
returns
 easing value | x must be in [0, 1] range

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Protocol Buffers

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pyjson5

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pywebsocket3

Project Homepage: https://github.com/GoogleChromeLabs/pywebsocket3/

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Quick Color Management System

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re2 - an efficient, principled regular expression library

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Recurrent neural network for audio noise reduction

Project Homepage: https://github.com/xiph/rnnoise

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Simple Homomorphic Encryption Library with Lattices

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

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simplejson

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URI Template Parser

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usrsctp

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v4l-utils

Project Homepage: http://git.linuxtv.org/v4l-utils.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/KhronosGroup/Vulkan-Headers


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  If distribution of object code is made by offering access to copy
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  If such an object file uses only numerical parameters, data

 structure layouts and accessors, and small macros and small inline functions

 lines or less in length), then the use of the object file is unrestricted,

 of whether it is legally a derivative work. (Executables containing this object

 plus portions of the Library will still fall under Section 6.)

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   with the Library, with the complete machine-readable "work that uses
the

   as object code and/or source code, so that the user can modify the
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   then relink to produce a modified executable containing the modified
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   is understood that the user who changes the contents of definitions
files in

   Library will not necessarily be able to recompile the application to
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   definitions.) b) Use a suitable shared library mechanism for linking
with the

   A suitable mechanism is one that (1) uses at run time a copy of the
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   present on the user's computer system, rather than copying library
functions

   the executable, and (2) will operate properly with a modified version
of the

   if the user installs one, as long as the modified version is

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 That's all there is to it!

Web Animations JS

Project Homepage: https://github.com/web-animations/web-animations-js

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Weston - reference Wayland compositor

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xdg-mime

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xdg-user-dirs

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