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Vector Network Analyzer

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

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Version 2.1, February 1999

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```
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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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

ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
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<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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Mapbox GL Native

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<https://github.com/deanm/css-color-parser-js>

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Blackmagic DeckLink SDK - Mac

Project Homepage:

http://software.blackmagicdesign.com/DeckLink/v10.7/Blackmagic_DeckLink_SDK_10.7.zip

Extracted from mac/include/DeckLinkAPI.h:

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

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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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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

* /

Emoji Segmenter

Project Homepage: <https://github.com/googleil8n/emoji-segmenter>

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these parts are used by default, you have to explicitly pass `--enable-gpl` to
configure to activate them. In this case, FFmpeg's license changes to GPL v2+.
Specifically, the GPL parts of FFmpeg are:
- libpostproc
- optional x86 optimization in the files

```

```

- `libavcodec/x86/flac_dsp_gpl.asm`
- `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
- `compat/solaris/make_sunver.pl`
- `doc/t2h.pm`
- `doc/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
libraries, even in circumstances that their license may be incompatible, pass
`--enable-nonfree` to configure. This will cause the resulting binary to be
unredistributable.
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/arm/vp8dsp_armv6.S

VP8 ARMv6 optimisations

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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/mips/acelp_vectors_mips.c

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libavcodec/mips/amrbdec_mips.c

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libavcodec/mips/celp_filters_mips.c

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Author: Nedeljko Babic (nbabic@mips.com)

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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Author: Zoran Lukic (zoranl@mips.com)
Optimized MDCT/IMDCT and FFT transforms
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libavcodec/mips/mpegauddsp_mips_float.c
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Author: Bojan Zivkovic (bojan@mips.com)

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 =====

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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
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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

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libavutil/fixed_dsp.c
libavutil/fixed_dsp.h
libavutil/mips/float_dsp_mips.c
libavutil/mips/libm_mips.h
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2006-Jan-27

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GVR Android SDK

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

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curl
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dynamic_annotations
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eigen3
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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

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./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
```



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./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
./test/eigen2/eigen2_stdvector.cpp
./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
```

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

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./demos/opengl/gpuhelper.cpp
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./debug/gdb/printers.py
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./unsupported/test/openglsupport.cpp
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./unsupported/test/bdcsvd.cpp
./unsupported/test/matrix_exponential.cpp
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./Eigen/src/Eigen2Support/Geometry/Hyperplane.h
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./Eigen/src/Geometry/Quaternion.h
./Eigen/src/Geometry/EulerAngles.h
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./Eigen/src/Core/Dot.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
./Eigen/src/OrderingMethods/Amd.h
./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
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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
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gradle

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 java/android_libs/exoplayer

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java/android_libs/protobuf_nano

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java_src/android_libs/protobuf_nano/v2

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jpeg

(extracted from src/README)

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Libxml2, an XML C Parser

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objective_c/gtm_session_fetcher

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IAccessible2 C OM interfaces for accessibility

Project Homepage: <https://github.com/LinuxAlly/IAccessible2>

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* IAccessible2 IDL Specification

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libjingle XMPP and xmllite libraries

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libyuv

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linux-syscall-support

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Lottie Web

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#####
BezierEasing - use bezier curve for transition easing function
by Gaetan Renaudeau 2014 - 2015 - MIT License
Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
spline.get(x) => returns the easing value | x must be in [0, 1] range
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modp base64 decoder

Project Homepage: <https://github.com/client9/stringencoders>

* MODP_B64 - High performance base64 encoder/decoder

* Version 1.3 -- 17-Mar-2006

* <http://modp.com/release/base64>

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Oculus SDK for Windows

Project Homepage: <https://developer.oculus.com/downloads/package/oculus-sdk-for-windows/>

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PLY (Python Lex-Yacc) Version 3.4

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pywebsocket et3

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re2 - an efficient, principled regular expression library

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Shader c

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Shaka Play er

Project Homepage: <https://github.com/google/shaka-player>

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

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Simple Homomorphic Encryption Library with Lattices

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

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Snappy: A fast compressor/decompressor

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tcmalloc

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usrsrcpt

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v4l-utils

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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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WDS

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Web Animations JS

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WebM container parser and writer.

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Weston - reference Wayland compositor

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xdg-user -dirs

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

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