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LLVM Team

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3.5 Autoconf exception 3.0

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Version 3.0, 18 August 2009

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Version 3.1, 31 March 2009

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

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"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)

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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)

September 24-28, 2005 , Long Beach, California, USA

<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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geosimplify-js polyline simplification library

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Based on simplify-js by Vladimir Agafonkin - <http://mourner.github.io/simplify-js/>

Mapbox GL Native

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CSS Color Parser

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

<https://github.com/kkaefer/css-color-parser-cpp>

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Almost Native Graphics Layer Engine

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Android Explicit Synchronization

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ANGLE array bounds clamper from WebKit

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ARCore SDK

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ARCore SDK client library for Chrome

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Breakpad, An open-source multi-platform crash reportingsystem

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Chrome Custom Tabs - Example and Usage

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

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Chromium OS system API
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CityHash

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

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Closure compiler

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

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Compact Encoding Detection
 Project Homepage: https://github.com/google/compact_enc_det

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d3

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Emoji Segmenter

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

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Expat XML Parser

Project Homepage: <https://github.com/libexpat/libexpat>

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FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to
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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: Loe
Ligtenberg A., and Moschytz C.S.: Practical Fast 1D DCT Algorithm with Eleven Multiplications,
ICASSP 1989, 988-991. Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
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***** libavformat/avformat.h

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google-glog's symbolization library

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google-jstemplate

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GVR Android SDK
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./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/e
./test/eigen2/eigen2_parametrizedline.cpp ./test/eigen2/eigen2_lu.cpp ./test/eigen2/eigen2_ad
./test/eigen2/eigen2_geometry.cpp ./test/eigen2/eigen2_stdvector.cpp ./test/eigen2/eigen2_new
./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.
./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
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./test/eigen2/eigen2_sparse_basic.cpp ./test/eigen2/eigen2_bug_132.cpp ./test/array.cpp
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./test/nullary.cpp ./test/bandmatrix.cpp ./test/pastix_support.cpp ./test/product.h ./test/bl
./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/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 ./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/jacobis
./unsupported/test/dgmres.cpp ./unsupported/test/matrix_square_root.cpp ./unsupported/test/bd
./unsupported/test/matrix_exponential.cpp ./unsupported/test/forward_adolc.cpp
./unsupported/test/polynomialsolver.cpp ./unsupported/test/matrix_function.cpp
./unsupported/test/sparse_extra.cpp ./unsupported/test/matrix_functions.h ./unsupported/test/
./unsupported/test/FFTW.cpp ./unsupported/test/alignedvector3.cpp ./unsupported/test/autodiff
./unsupported/test/gmres.cpp ./unsupported/test/BVH.cpp ./unsupported/test/levenberg_marquardt
./unsupported/test/matrix_power.cpp ./unsupported/test/kronecker_product.cpp
./unsupported/test/splines.cpp ./unsupported/test/polynomialutils.cpp ./unsupported/bench/ben
./unsupported/Eigen/IterativeSolvers ./unsupported/Eigen/src/IterativeSolvers/DGMRES.h
./unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h ./unsupported/Eigen/src/IterativeSolv
./unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
./unsupported/Eigen/src/IterativeSolvers/Scaling.h ./unsupported/Eigen/src/IterativeSolvers/M
./unsupported/Eigen/src/SparseExtra/RandomSetter.h
./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
./unsupported/Eigen/src/SparseExtra/DynamicSparseMatrix.h
./unsupported/Eigen/src/SparseExtra/MarketIO.h
./unsupported/Eigen/src/SparseExtra/BlockOfDynamicSparseMatrix.h
./unsupported/Eigen/src/KroneckerProduct/KroneckerTensorProduct.h
./unsupported/Eigen/src/NonLinearOptimization/LevenbergMarquardt.h

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./unsupported/Eigen/src/NonLinearOptimization/HybridNonLinearSolver.h
./unsupported/Eigen/src/BVH/BVAlgorithms.h ./unsupported/Eigen/src/BVH/KdBVH.h
./unsupported/Eigen/src/AutoDiff/AutoDiffScalar.h ./unsupported/Eigen/src/AutoDiff/AutoDiffJacobi.h
./unsupported/Eigen/src/AutoDiff/AutoDiffVector.h ./unsupported/Eigen/src/Splines/Spline.h
./unsupported/Eigen/src/Splines/SplineFitting.h ./unsupported/Eigen/src/Splines/SplineFwd.h
./unsupported/Eigen/src/SVD/JacobiSVD.h ./unsupported/Eigen/src/SVD/BDCSVD.h
./unsupported/Eigen/src/SVD/SVDBase.h ./unsupported/Eigen/src/MatrixFunctions/MatrixFunction.h
./unsupported/Eigen/src/MatrixFunctions/MatrixSquareRoot.h
./unsupported/Eigen/src/MatrixFunctions/MatrixLogarithm.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixPower.h
./unsupported/Eigen/src/MatrixFunctions/MatrixExponential.h
./unsupported/Eigen/src/MatrixFunctions/MatrixFunctionAtomic.h
./unsupported/Eigen/src/MoreVectorization/MathFunctions.h
./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h
./unsupported/Eigen/src/FFT/ei_fftw_impl.h ./unsupported/Eigen/src/FFT/ei_kissfft_impl.h
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./unsupported/Eigen/src/Skyline/SkylineUtil.h ./unsupported/Eigen/src/Skyline/SkylineInplaceLU.h
./unsupported/Eigen/src/Skyline/SkylineMatrix.h ./unsupported/Eigen/SparseExtra
./unsupported/Eigen/AdolcForward ./unsupported/Eigen/KroneckerProduct
./unsupported/Eigen/NonLinearOptimization ./unsupported/Eigen/BVH ./unsupported/Eigen/OpenGLSupport
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./unsupported/Eigen/MPRealSupport ./unsupported/Eigen/MatrixFunctions
./unsupported/Eigen/MoreVectorization ./unsupported/Eigen/LevenbergMarquardt
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./unsupported/Eigen/NumericalDiff ./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README
./LICENSE ./LICENSE ./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Cwise.h ./Eigen/src/Eigen2Support/Minor.h
./Eigen/src/Eigen2Support/Lazy.h ./Eigen/src/Eigen2Support/Memory.h
./Eigen/src/Eigen2Support/MathFunctions.h ./Eigen/src/Eigen2Support/Geometry/AlignedBox.h
./Eigen/src/Eigen2Support/Geometry/Hyperplane.h ./Eigen/src/Eigen2Support/Geometry/Quaternion.h
./Eigen/src/Eigen2Support/Geometry/Rotation2D.h ./Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
./Eigen/src/Eigen2Support/Geometry/RotationBase.h ./Eigen/src/Eigen2Support/Geometry/Translation.h
./Eigen/src/Eigen2Support/Geometry/Scaling.h ./Eigen/src/Eigen2Support/Geometry/AngleAxis.h
./Eigen/src/Eigen2Support/Geometry/Transform.h ./Eigen/src/Eigen2Support/TriangularSolver.h
./Eigen/src/Eigen2Support/LU.h ./Eigen/src/Eigen2Support/QR.h ./Eigen/src/Eigen2Support/SVD.h
./Eigen/src/Eigen2Support/Meta.h ./Eigen/src/Eigen2Support/Block.h ./Eigen/src/Eigen2Support/Block.h
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./Eigen/src/SparseCore/SparseCwiseBinaryOp.h ./Eigen/src/SparseCore/SparseDiagonalProduct.h
./Eigen/src/SparseCore/SparseProduct.h ./Eigen/src/SparseCore/SparseDot.h
./Eigen/src/SparseCore/SparseCwiseUnaryOp.h ./Eigen/src/SparseCore/SparseSparseProductWithPruning.h
./Eigen/src/SparseCore/SparseBlock.h ./Eigen/src/SparseCore/SparseDenseProduct.h
./Eigen/src/SparseCore/CompressedStorage.h ./Eigen/src/SparseCore/SparseMatrixBase.h
./Eigen/src/SparseCore/MappedSparseMatrix.h ./Eigen/src/SparseCore/SparseTriangularView.h

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./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h
./Eigen/src/SparseCore/TriangularSolver.h ./Eigen/src/SparseCore/SparseSelfAdjointView.h
./Eigen/src/SparseCore/SparseMatrix.h ./Eigen/src/SparseCore/SparseVector.h
./Eigen/src/SparseCore/AmbiVector.h ./Eigen/src/SparseCore/ConservativeSparseProduct.h
./Eigen/src/SparseCore/SparseRedux.h ./Eigen/src/SparseCore/SparsePermutation.h
./Eigen/src/Eigenvalues/RealSchur.h ./Eigen/src/Eigenvalues/ComplexEigenSolver.h
./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
./Eigen/src/Eigenvalues/ComplexSchur.h ./Eigen/src/Eigenvalues/RealQZ.h
./Eigen/src/Eigenvalues/EigenSolver.h ./Eigen/src/Eigenvalues/HessenbergDecomposition.h
./Eigen/src/Eigenvalues/GeneralizedSelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/Tridiagonalization.h
./Eigen/src/Eigenvalues/SelfAdjointEigenSolver.h ./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h
./Eigen/src/SuperLUSupport/SuperLUSupport.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h ./Eigen/src/StlSupport/StdList.h ./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/SparseQR/SparseQR.h ./Eigen/src/LU/Inverse.h ./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/Determinant.h ./Eigen/src/LU/PartialPivLU.h ./Eigen/src/LU/FullPivLU.h
./Eigen/src/UmfPackSupport/UmfPackSupport.h ./Eigen/src/OrderingMethods/Ordering.h
./Eigen/src/OrderingMethods/Eigen_Colamd.h ./Eigen/src/QR/HouseholderQR.h
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./Eigen/src/plugins/CommonCwiseBinaryOps.h ./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h ./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/HouseholderSequence.h ./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/CwiseUnaryOps.h
./Eigen/src/Core/SolveTriangular.h ./Eigen/src/Core/Fuzzy.h ./Eigen/src/Core/Visitor.h
./Eigen/src/Core/Map.h ./Eigen/src/Core/NoAlias.h ./Eigen/src/Core/Diagonal.h
./Eigen/src/Core/StableNorm.h ./Eigen/src/Core/CoreIterators.h ./Eigen/src/Core/products/Paralleltensor.h
./Eigen/src/Core/products/SelfadjointMatrixVector.h
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./Eigen/src/Core/products/TriangularSolverVector.h ./Eigen/src/Core/products/SelfadjointRank2Update.h
./Eigen/src/Core/products/GeneralBlockPanelKernel.h ./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/products/TriangularMatrixMatrix.h ./Eigen/src/Core/Reverse.h
./Eigen/src/Core/BooleanRedux.h ./Eigen/src/Core/Replicate.h ./Eigen/src/Core/arch/Altivec/Altivec.h
./Eigen/src/Core/arch/Altivec/Complex.h ./Eigen/src/Core/arch/SSE/PacketMath.h
./Eigen/src/Core/arch/SSE/Complex.h ./Eigen/src/Core/arch/SSE/MathFunctions.h
./Eigen/src/Core/arch/NEON/PacketMath.h ./Eigen/src/Core/arch/NEON/Complex.h
./Eigen/src/Core/arch/Default/Settings.h ./Eigen/src/Core/CwiseUnaryView.h ./Eigen/src/Core/Array.h
./Eigen/src/Core/ArrayWrapper.h ./Eigen/src/Core/Swap.h ./Eigen/src/Core/Transpositions.h

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./Eigen/src/Core/Random.h ./Eigen/src/Core/IO.h ./Eigen/src/Core/SelfCwiseBinaryOp.h
./Eigen/src/Core/VectorwiseOp.h ./Eigen/src/Core/Select.h ./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/DenseCoeffsBase.h ./Eigen/src/Core/DiagonalProduct.h ./Eigen/src/Core/Assign
./Eigen/src/Core/Redux.h ./Eigen/src/Core/ForceAlignedAccess.h
./Eigen/src/Core/BandMatrix.h ./Eigen/src/Core/PlainObjectBase.h ./Eigen/src/Core/DenseBase.h
./Eigen/src/Core/Flagged.h ./Eigen/src/Core/CwiseBinaryOp.h ./Eigen/src/Core/ProductBase.h
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./Eigen/src/Core/NumTraits.h ./Eigen/src/Core/MatrixBase.h ./Eigen/src/Core/DenseStorage.h
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./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h ./Eigen/src/Core/Block.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h ./Eigen/src/Core/Return
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h ./Eigen/src/SparseLU/SparseLU_panel_dfs.h
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./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h ./Eigen/src/SparseLU/SparseLU_Utils.h
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./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h ./Eigen/src/IterativeLinearSolvers/BiC
./Eigen/src/SparseCholesky/SimplicialCholesky.h ./Eigen/src/Cholesky/LDLT.h
./Eigen/src/Cholesky/LLT.h ./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/PaStiXSupport/PaStiXSupport.h ./Eigen/src/MetisSupport/MetisSupport.h ./Eigen/Std
./Eigen/Core ./Eigen/SparseLU ./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
./scripts/relicense.py ./scripts/relicense.py ./blas/BandTriangularSolver.h
./blas/PackedTriangularMatrixVector.h ./blas/complex_double.cpp ./blas/level2_real_impl.h
./blas/level1_cplx_impl.h ./blas/level1_impl.h ./blas/level1_real_impl.h ./blas/level3_impl.h
./blas/level2_cplx_impl.h ./blas/PackedSelfadjointProduct.h ./blas/Rank2Update.h ./blas/compl
./blas/PackedTriangularSolverVector.h ./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
./blas/GeneralRank1Update.h Mozilla Public License Version 2.0
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Headers for the Windows 10 WebAuthn API (webauthn.dll)

Project Homepage: <https://github.com/Microsoft/webauthn/>

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jsoncpp

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LevelDB: A Fast Persistent Key-Value Store

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libjingle XMPP and xmllite libraries

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libprotobuf-mutator

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libudev

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linux-syscall-support

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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

Project Homepage: <https://github.com/jrmuizel/qcms/tree/v4>

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re2 - an efficient, principled regular expression library

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six

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SMHasher

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Snappy: A fast compressor/decompressor

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UnRAR source for decompressing .RAR and other files.

Project Homepage: <https://github.com/aawc/unrar.git>

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url_parse

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usrstcp

Project Homepage: <http://github.com/sctplab/usrstcp>

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v4l-utils

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WebM container parser and writer.

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Weston - reference Wayland compositor

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woff2

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Wuffs (Wrangling Untrusted File Formats Safely)

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xdg-utils

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```

That's all there is to it!

```
=====
avahi-0.8: avahi-common/address.h, 1-25
=====
```

```
#ifndef foaddressshfoo
```

```

#define fooaddressshfoo

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****/

/** \file address.h Definitions and functions to manipulate IP addresses. */

#include <inttypes.h>

=====
avahi-0.8: avahi-core/dns.h, 1-23
=====

#ifndef foodnshfoo
#define foodnshfoo

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****/

```

```
#include "rr.h"

=====
avahi-0.8: avahi-daemon/main.c, 1-21
=====

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****/

#ifdef HAVE_CONFIG_H
#include <config.h>

=====
avahi-0.8: avahi-client/client.h, 1-23
=====

#ifndef fooclienthfoo
#define fooclienthfoo

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```

```
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```

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```

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```
=====
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```

```
<signature of Ty Coon>, 1 April 1989
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```
=====
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```

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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.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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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 the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together 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 not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Library General Public  
License as published by the Free Software Foundation; either  
version 2 of the License, or (at your option) any later version.
```

```
This library is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU  
Library General Public License for more details.
```

```
You should have received a copy of the GNU Library General Public  
License along with this library; if not, write to the Free  
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,  
MA 02110-1301, USA
```

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
=====
binutils-2.36.1: COPYING3
binutils-2.36.1: gas/COPYING
binutils-2.36.1: include/COPYING3
binutils-2.36.1: bfd/COPYING
cifs-utils-6.13: COPYING
elfutils-0.183: COPYING
gcc-runtime-10.2.0: COPYING3
gdb-10.1: COPYING3
gmp-6.2.1: COPYING
haveged-1.9.14: COPYING
libgcc-10.2.0: COPYING3
mhdfs-0.1.39+git: LICENSE
readline-8.1: COPYING
samba3-3.6.24: COPYING
xz-5.2.5: COPYING.GPLv3
=====
```

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Version 3, 29 June 2007

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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```
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```

```
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the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
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```
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```
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```

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```

=====
binutils-2.36.1: COPYING3.LIB
gcc-runtime-10.2.0: COPYING3.LIB
gdb-10.1: COPYING3.LIB
gmp-6.2.1: COPYING.LESSERv3
libgcc-10.2.0: COPYING3.LIB
libunistring-0.9.10: COPYING.LIB
nettle-3.7.3: COPYING.LESSERv3
=====

```

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```
=====
binutils-2.36.1: libiberty/COPYING.LIB
=====
```

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```

```
=====
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=====
```

```
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 jseward@bzip.org
 bzip2/libbzip2 version 1.0.4 of 20 December 2006

```
=====
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loginrec.h

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=====

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=====

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Theodore Ts'o
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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

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
=====
e2fsprogs-1.46.1: lib/ext2fs/ext2fs.h, 1-9
=====
```

```
/*
 * ext2fs.h --- ext2fs
 *
 * Copyright (C) 1993, 1994, 1995, 1996 Theodore Ts'o.
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
```

```
=====
e2fsprogs-1.46.1: lib/e2p/e2p.h, 1-7
=====
```

```
/*
 * e2p.h --- header file for the e2p library
 *
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 * %End-Header%
```

```
=====
e2fsprogs-1.46.1: lib/uuid/uuid.h.in, 1-32
=====
```

```
/*
 * Public include file for the UUID library
 *
```

```

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```

```

=====
e2fsprogs-1.46.1: lib/uuid/COPYING
util-linux-2.36.2: Documentation/licenses/COPYING.BSD-3-Clause
util-linux-libuuid-2.36.2: Documentation/licenses/COPYING.BSD-3-Clause
=====

```

```

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```
=====
e2fsprogs-1.46.1: lib/et/et_name.c, 1-11
=====
```

```
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 *
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```

```
=====
e2fsprogs-1.46.1: lib/ss/ss.h, 1-20
=====
```

```
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 *
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 *
 * This quote is just too good to not pass on:
 *
 * "BTW, I would have rejected the name Story Server because its
 * initials are SS, the name of the secret police in Nazi
 * Germany, probably the most despised pair of letters in western
 * culture." --- http://scriptingnewsarchive.userland.com/1999/12/13
```

```

*
* Let no one say political correctness isn't dead...

=====
elfutils-0.183: debuginfod/debuginfod-client.c, 1-27
=====

/* Retrieve ELF / DWARF / source files from the debuginfod.
   Copyright (C) 2019-2020 Red Hat, Inc.
   This file is part of elfutils.

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   it under the terms of either

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     your option) any later version

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=====
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=====

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your brain examined.

```

Juliusz Chroboczek

```
=====
eudev-3.2.10: COPYING
kmod-28: tools/COPYING
=====
```

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```
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```

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```
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```

```
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Ty Coon, President of Vice
```

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```
=====
e-wm-16-1.0.13: COPYING
=====
```

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=====

```

/* pwait - wait for processes to terminate
 * extrace - trace exec() calls system-wide
 *
 * Copyright (C) 2014-2018 Leah Neukirchen <leah@vuxu.org>
 *
 * hacked from sources of:
 */
/* FreeBSD: head/bin/pwait/pwait.c 245506 2013-01-16 18:15:25Z delphij */
/*-
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 * OF SUCH DAMAGE.
 */
/* exec-notify, so you can watch your acrobat reader or vim executing "bash -c"
 * commands ;- )
 * Requires some 2.6.x Linux kernel with proc connector enabled.
 *
 * $ cc -Wall -ansi -pedantic -std=c99 exec-notify.c
 *
 * (C) 2007-2010 Sebastian Kraemer <kraemer@suse.de> original netlink handling

```

```

* stolen from an proc-connector example, copyright follows:
*/
/* Copyright (C) Matt Helsley, IBM Corp. 2005
* Derived from fcctl.c by Guillaume Thouvenin
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*
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* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/

```

```

=====
fdlibm-5.3: fdlibm.h, 5-9
=====

```

```

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```

```

=====
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=====

```

```

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```

```

=====
font-alias-1.0.4: cyrillic/fonts.alias
=====

```

```

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!
fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
variable -*helvetica-bold-r-normal-*--120-*--*--*--koi8-r
5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r
12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
nil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
koi-fixed -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi-variable -*helvetica-bold-r-normal-*--120-*--*--*--koi8-r
koi5x8 -misc-fixed-medium-r-normal--8-80-75-75-c-50-koi8-r
koi6x9 -misc-fixed-medium-r-normal--9-90-75-75-c-60-koi8-r
koi6x10 -cronyx-fixed-medium-r-normal--10-100-75-75-c-60-koi8-r
koi6x13 -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-koi8-r
koi6x13bold -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-koi8-r
koi7x14 -misc-fixed-medium-r-normal--14-130-75-75-c-70-koi8-r
koi7x14b -misc-fixed-bold-r-normal--14-130-75-75-c-70-koi8-r
koi8x13 -misc-fixed-medium-r-normal--13-120-75-75-c-80-koi8-r
koi8x16 -misc-fixed-medium-r-normal--16-160-75-75-c-80-koi8-r
koi8x16bold -misc-fixed-bold-r-normal--16-160-75-75-c-80-koi8-r
koi9x15 -misc-fixed-medium-r-normal--15-140-75-75-c-90-koi8-r
koi9x15bold -misc-fixed-bold-r-normal--15-140-75-75-c-90-koi8-r
koi9x18 -misc-fixed-medium-r-normal--18-120-100-100-c-90-koi8-r
koi9x18bold -misc-fixed-bold-r-normal--18-120-100-100-c-90-koi8-r
koi10x16bold -cronyx-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r
koi10x20 -cronyx-fixed-medium-r-normal--20-200-75-75-c-100-koi8-r
koi12x24 -misc-fixed-medium-r-normal--24-170-100-100-c-120-koi8-r

```



```

koi12x24bold -misc-fixed-bold-r-normal--24-170-100-100-c-120-koi8-r
koinil2 -cronyx-nil-medium-r-normal--2-20-75-75-c-10-koi8-r
screen8x16 -screen-fixed-medium-r-normal--16-120-100-100-c-80-koi8-r
screen8x16b -screen-fixed-bold-r-normal--16-120-100-100-c-80-koi8-r

```

```

=====
font-alias-1.0.4: 75dpi/fonts.alias
=====

```

```

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-8-80-75-75-p-49-iso8859-1
lucidasans-bolditalic-10 -b&h-lucida-bold-i-normal-sans-10-100-75-75-p-67-iso8859-1
lucidasans-bolditalic-12 -b&h-lucida-bold-i-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bolditalic-14 -b&h-lucida-bold-i-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bolditalic-18 -b&h-lucida-bold-i-normal-sans-18-180-75-75-p-119-iso8859-1
lucidasans-bolditalic-24 -b&h-lucida-bold-i-normal-sans-24-240-75-75-p-151-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-8-80-75-75-p-50-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-10-100-75-75-p-66-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-12-120-75-75-p-79-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-14-140-75-75-p-92-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-18-180-75-75-p-120-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-24-240-75-75-p-152-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-10-100-75-75-p-59-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-14-140-75-75-p-82-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-18-180-75-75-p-105-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-8-80-75-75-p-45-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-10-100-75-75-p-58-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-12-120-75-75-p-71-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-14-140-75-75-p-81-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-18-180-75-75-p-106-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-24-240-75-75-p-136-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-bold-12
-b&h-lucidatypewriter-bold-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidatypewriter-bold-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidatypewriter-bold-r-normal-sans-18-180-75-75-m-110-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidatypewriter-bold-r-normal-sans-24-240-75-75-m-140-iso8859-1
lucidasanstypewriter-8
-b&h-lucidatypewriter-medium-r-normal-sans-8-80-75-75-m-50-iso8859-1
lucidasanstypewriter-10
-b&h-lucidatypewriter-medium-r-normal-sans-10-100-75-75-m-60-iso8859-1
lucidasanstypewriter-12

```

```
-b&h-lucidatypewriter-medium-r-normal-sans-12-120-75-75-m-70-iso8859-1
lucidasanstypewriter-14
-b&h-lucidatypewriter-medium-r-normal-sans-14-140-75-75-m-90-iso8859-1
lucidasanstypewriter-18
-b&h-lucidatypewriter-medium-r-normal-sans-18-180-75-75-m-110-iso8859-1
lucidasanstypewriter-24
-b&h-lucidatypewriter-medium-r-normal-sans-24-240-75-75-m-140-iso8859-1
```

```
=====
font-alias-1.0.4: misc/fonts.alias
=====
```

```
fixed      -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
variable   -*helvetica-bold-r-normal--120-*-*-*-*iso8859-1
5x7        -misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
5x8        -misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
6x9        -misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
6x10       -misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1
6x12       -misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1
6x13       -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
6x13bold   -misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1
7x13       -misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1
7x13bold   -misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1
7x13euro   -misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-15
7x13eurobold -misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-15
7x14       -misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1
7x14bold   -misc-fixed-bold-r-normal--14-130-75-75-c-70-iso8859-1
8x13       -misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1
8x13bold   -misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1
8x16       -sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
9x15       -misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1
9x15bold   -misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1
10x20      -misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
12x24      -sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
nil2       -misc-nil-medium-r-normal--2-20-75-75-c-10-misc-fontspecific

heb6x13    -misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
heb8x13    -misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8

k14        -misc-fixed-medium-r-normal--14-*-*-*-*jisx0208.1983-0
a14        -misc-fixed-medium-r-normal--14-*-*-*-*iso8859-1
r14        -misc-fixed-medium-r-normal--14-*-*-*-*jisx0201.1976-0
rk14       -misc-fixed-medium-r-normal--14-*-*-*-*jisx0201.1976-0
r16        -sony-fixed-medium-r-normal--16-*-*-*-*jisx0201.1976-0
rk16       -sony-fixed-medium-r-normal--16-*-*-*-*jisx0201.1976-0
r24        -sony-fixed-medium-r-normal--24-*-*-*-*jisx0201.1976-0
rk24       -sony-fixed-medium-r-normal--24-*-*-*-*jisx0201.1976-0
kana14     -misc-fixed-medium-r-normal--14-*-*-*-*jisx0201.1976-0
8x16kana   -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
8x16romkana -sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
```

```

12x24kana      -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
12x24romankana -sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
kanji16       -jis-fixed-medium-r-normal--16-***-***-jisx0208.1983-0
kanji24       -jis-fixed-medium-r-normal--24-***-***-jisx0208.1983-0

hanzigb16st   "-isas-song ti-medium-r-normal--16-160-72-72-c-160-gb2312.1980-0"
hanzigb24st   "-isas-song ti-medium-r-normal--24-240-72-72-c-240-gb2312.1980-0"
hanzigb16fs   "-isas-fangsong ti-medium-r-normal--16-160-72-72-c-160-gb2312.1980-0"

olcursor     "-sun-open look cursor-----12-120-75-75-p-160-sunolcursor-1"
olglyph-10   "-sun-open look glyph-----10-100-75-75-p-101-sunolglyph-1"
olglyph-12   "-sun-open look glyph-----12-120-75-75-p-113-sunolglyph-1"
olglyph-14   "-sun-open look glyph-----14-140-75-75-p-128-sunolglyph-1"
olglyph-19   "-sun-open look glyph-----19-190-75-75-p-154-sunolglyph-1"

-misc-fixed-medium-r-normal--7-50-100-100-c-50-iso8859-1
-misc-fixed-medium-r-normal--7-70-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--8-60-100-100-c-50-iso8859-1
-misc-fixed-medium-r-normal--8-80-75-75-c-50-iso8859-1
-misc-fixed-medium-r-normal--9-80-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--9-90-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-70-100-100-c-60-iso8859-1
-misc-fixed-medium-r-normal--10-100-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-90-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--12-110-75-75-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-100-100-100-c-60-iso8859-1
-misc-fixed-bold-r-semicondensed--13-120-75-75-c-60-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-70-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-100-100-100-c-80-iso8859-1
-misc-fixed-bold-r-normal--13-120-75-75-c-80-iso8859-1
-misc-fixed-medium-r-normal--14-110-100-100-c-70-iso8859-1
-misc-fixed-medium-r-normal--14-130-75-75-c-70-iso8859-1
-misc-fixed-medium-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-medium-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-120-100-100-c-90-iso8859-1
-misc-fixed-bold-r-normal--15-140-75-75-c-90-iso8859-1
-misc-fixed-medium-r-normal--20-140-100-100-c-100-iso8859-1
-misc-fixed-medium-r-normal--20-200-75-75-c-100-iso8859-1
-misc-fixed-medium-r-semicondensed--13-100-100-100-c-60-iso8859-8
-misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso8859-8
-misc-fixed-medium-r-normal--13-100-100-100-c-80-iso8859-8
-misc-fixed-medium-r-normal--13-120-75-75-c-80-iso8859-8
-sony-fixed-medium-r-normal--16-150-75-75-c-80-iso8859-1

```

```

-sony-fixed-medium-r-normal--16-120-100-100-c-80-iso8859-1
-sony-fixed-medium-r-normal--16-150-75-75-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--16-120-100-100-c-80-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-230-75-75-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-170-100-100-c-120-iso8859-1
-sony-fixed-medium-r-normal--24-230-75-75-c-120-jisx0201.1976-0
-sony-fixed-medium-r-normal--24-170-100-100-c-120-jisx0201.1976-0
-jis-fixed-medium-r-normal--16-110-100-100-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--16-150-75-75-c-160-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-170-100-100-c-240-jisx0208.1983-0
-jis-fixed-medium-r-normal--24-230-75-75-c-240-jisx0208.1983-0

```

```

=====
font-alias-1.0.4: 100dpi/fonts.alias
=====

```

```

lucidasans-bolditalic-8 -b&h-lucida-bold-i-normal-sans-11-80-100-100-p-69-iso8859-1
lucidasans-bolditalic-10
-b&h-lucida-bold-i-normal-sans-14-100-100-100-p-90-iso8859-1
lucidasans-bolditalic-12
-b&h-lucida-bold-i-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bolditalic-14
-b&h-lucida-bold-i-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bolditalic-18
-b&h-lucida-bold-i-normal-sans-25-180-100-100-p-159-iso8859-1
lucidasans-bolditalic-24
-b&h-lucida-bold-i-normal-sans-34-240-100-100-p-215-iso8859-1
lucidasans-bold-8 -b&h-lucida-bold-r-normal-sans-11-80-100-100-p-70-iso8859-1
lucidasans-bold-10 -b&h-lucida-bold-r-normal-sans-14-100-100-100-p-89-iso8859-1
lucidasans-bold-12 -b&h-lucida-bold-r-normal-sans-17-120-100-100-p-108-iso8859-1
lucidasans-bold-14 -b&h-lucida-bold-r-normal-sans-20-140-100-100-p-127-iso8859-1
lucidasans-bold-18 -b&h-lucida-bold-r-normal-sans-25-180-100-100-p-158-iso8859-1
lucidasans-bold-24 -b&h-lucida-bold-r-normal-sans-34-240-100-100-p-216-iso8859-1
lucidasans-italic-8 -b&h-lucida-medium-i-normal-sans-11-80-100-100-p-62-iso8859-1
lucidasans-italic-10 -b&h-lucida-medium-i-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-italic-12 -b&h-lucida-medium-i-normal-sans-17-120-100-100-p-97-iso8859-1
lucidasans-italic-14 -b&h-lucida-medium-i-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-italic-18 -b&h-lucida-medium-i-normal-sans-25-180-100-100-p-141-iso8859-1
lucidasans-italic-24 -b&h-lucida-medium-i-normal-sans-34-240-100-100-p-192-iso8859-1
lucidasans-8 -b&h-lucida-medium-r-normal-sans-11-80-100-100-p-63-iso8859-1
lucidasans-10 -b&h-lucida-medium-r-normal-sans-14-100-100-100-p-80-iso8859-1
lucidasans-12 -b&h-lucida-medium-r-normal-sans-17-120-100-100-p-96-iso8859-1
lucidasans-14 -b&h-lucida-medium-r-normal-sans-20-140-100-100-p-114-iso8859-1
lucidasans-18 -b&h-lucida-medium-r-normal-sans-25-180-100-100-p-142-iso8859-1
lucidasans-24 -b&h-lucida-medium-r-normal-sans-34-240-100-100-p-191-iso8859-1
lucidasanstypewriter-bold-8
-b&h-lucidatypewriter-bold-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-bold-10
-b&h-lucidatypewriter-bold-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-bold-12

```

```

-b&h-lucidadtypewriter-bold-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-bold-14
-b&h-lucidadtypewriter-bold-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-bold-18
-b&h-lucidadtypewriter-bold-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-bold-24
-b&h-lucidadtypewriter-bold-r-normal-sans-34-240-100-100-m-200-iso8859-1
lucidasanstypewriter-8
-b&h-lucidadtypewriter-medium-r-normal-sans-11-80-100-100-m-70-iso8859-1
lucidasanstypewriter-10
-b&h-lucidadtypewriter-medium-r-normal-sans-14-100-100-100-m-80-iso8859-1
lucidasanstypewriter-12
-b&h-lucidadtypewriter-medium-r-normal-sans-17-120-100-100-m-100-iso8859-1
lucidasanstypewriter-14
-b&h-lucidadtypewriter-medium-r-normal-sans-20-140-100-100-m-120-iso8859-1
lucidasanstypewriter-18
-b&h-lucidadtypewriter-medium-r-normal-sans-25-180-100-100-m-150-iso8859-1
lucidasanstypewriter-24
-b&h-lucidadtypewriter-medium-r-normal-sans-34-240-100-100-m-200-iso8859-1

```

```

=====
fontconfig-2.13.1: COPYING
=====

```

```
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```

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```
=====  
fontconfig-2.13.1: src/fcftretype.c, 1-45  
=====
```

```
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 * fontconfig/src/fcftretype.c  
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 */
```

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```
*/
```

```
=====
fontconfig-2.13.1: src/fccache.c, 1671-1686
=====
```

```
/*
```

```

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* The algorithm is due to Ron Rivest. This code was
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*
* Equivalent code is available from RSA Data Security, Inc.
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*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

```
=====
font-util-1.3.2: COPYING
=====
```

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=====
 font-util-1.3.2: ucs2any.c, 1-28

```
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 */
```

```
=====  
font-util-1.3.2: bdftruncate.c, 1-26  
=====
```

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*/
```

```
=====  
font-util-1.3.2: map-ISO8859-1, 9-23  
=====
```

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 freetype-2.10.4: docs/FTL.TXT
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Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

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Our home page can be found at

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--- end of FTL.TXT ---

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freetype-2.10.4: docs/GPLv2.TXT

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xz-5.2.5: COPYING.LGPLv2.1
=====
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=====
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Version 3.1, 31 March 2009

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=====
glib-2.0-2.66.7: glib/glib.h, 4-17
glib-2.0-2.66.7: gmodule/gmodule.h, 4-17
=====
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=====
glib-2.0-2.66.7: glib/pcre/pcre.h, 8-36
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iptables-1.8.7: iptables/iptables.c, 13-25
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=====
libdaemon-0.14: libdaemon/daemon.h, 9-21
=====

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libdrm-2.4.104: xf86drm.c, 9-32
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libglu-9.0.1: include/GL/glu.h, 1-29

libglu-9.0.1: src/libtess/tess.c, 1-29

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libgpg-error-1.41: src/gpg-error.h.in, 2-18

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libpgp-error-1.41: src/init.c, 2-17
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```
=====
libidn2-2.3.0: src/idn2.c, 1-16
=====
```

```
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```

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```
*/
```

```
=====
libidn2-2.3.0: lib/idn2.h.in, 1-27
=====
```

```
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```

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*/

```
=====
libjpeg-turbo-2.0.6: cdjpeg.h, 1-13
=====
```

/*

* cdjpeg.h

*

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*

* This file contains common declarations for the sample applications

* cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

```
=====
libjpeg-turbo-2.0.6: jpeglib.h, 1-16
=====
```

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* file.

```

*
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

=====
libjpeg-turbo-2.0.6: djpeg.c, 1-11
=====

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* djpeg.c
*
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```
=====
libpcre-8.44: LICENCE
=====
```

```
PCRE LICENCE
-----
```

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

```
THE BASIC LIBRARY FUNCTIONS
-----
```

```
Written by:      Philip Hazel
Email local part: ph10
```

Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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End

```
=====
libpcre2-10.36: LICENCE
=====
```

```
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-----
```

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```
THE BASIC LIBRARY FUNCTIONS
-----
```

```
Written by:      Philip Hazel
Email local part: Philip.Hazel
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```

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```

```

=====
libtirpc-1.3.1: src/netname.c, 1-27
rpcbind-1.2.5: src/rpcinfo.c, 1-27
=====

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=====
libunistring-0.9.10: README, 45-65
=====

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The documentation is under another license; see in the documentation.

```
=====
libunistring-0.9.10: doc/libunistring.texi
=====
```

```
\input texinfo          @c -*-texinfo-*-
@comment %**start of header
@setfilename libunistring.info
@documentencoding UTF-8
@settitle GNU libunistring
@finalout
@c Indices:
@c  am = autoconf macro  @amindex
@c  cp = concept         @cindex
@c  fn = function        @findex
@c  tp = type            @tindex
@c Unused predefined indices:
@c  ky = keystroke       @kindex
@c  pg = program         @pindex
@c  vr = variable        @vindex
@defcodeindex am
@syncodeindex am cp
@syncodeindex fn cp
@syncodeindex tp cp
@ifclear texi2html
@firstparagraphindent insert
@end ifclear
@c texi2html-1.76 does not support @arrow{}.
@ifset texi2html
@macro arrow{}
→
@end macro
```

```
@end ifset
@comment %**end of header

@include version.texi

@c Location of the POSIX specification on the web.
@set POSIXURL http://pubs.opengroup.org/onlinepubs/9699919799

@c Macro for referencing a POSIX header.
@ifinfo
@macro posixheader{header}
@code{<\header>}
@end macro
@end ifinfo
@ifnotinfo
@macro posixheader{header}
@uref{@value{POSIXURL}/basedefs/\header\.html,,@code{<\header>}}
@end macro
@end ifnotinfo

@c Macro for referencing a POSIX function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@ifinfo
@macro posixfunc{func}
@code{\func\}
@end macro
@end ifinfo
@ifnotinfo
@macro posixfunc{func}
@uref{@value{POSIXURL}/functions/\func\.html,,@code{\func\}}
@end macro
@end ifnotinfo

@c Macro for referencing a normal function.
@c We don't write it as func(), see section "GNU Manuals" of the
@c GNU coding standards.
@macro func{func}
@code{\func\}
@end macro

@c Macro for an advisory ragged line break in TeX mode.
@c Needed because there are long unbreakable pieces of text (such as URLs or
@c formulas), TeX is too shy to move them to a new line. TeX considers only
@c two choices: a line break in aligned mode (which it rejects due to aesthetic
@c reasons) and writing into the margin. What we want in many cases is a line
@c break without filling the first line. Like what @* delivers. But we want it
@c only when needed, so that it disappears when unrelated changes in the same
@c paragraph cause a line break in a nearby position. And we need it only in
@c TeX mode. info and HTML modes are fine.
```

```
@c This trick is from Karl Berry.
@iftex
@macro texnl
@hfil@penalty9000@hfilneg
@end macro
@end iftex
@ifnottex
@macro texnl
@end macro
@end ifnottex

@ifinfo
@dircategory Software development
@direntry
* GNU libunistring: (libunistring).      Unicode string library.
@end direntry
@end ifinfo

@ifinfo
This manual is for GNU libunistring.

@ignore
@c This was: @copying but it triggers a makeinfo 4.13 bug
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version 3 of the License, or (at your option) any later version published
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@end ignore
@end ifinfo

@titlepage
@title GNU libunistring, version @value{VERSION}
@subtitle updated @value{UPDATED}
@subtitle Edition @value{EDITION}, @value{UPDATED}
@author Bruno Haible
```

```

@ifnohtml
@page
@vskip 0pt plus 1filll
@c @insertcopying
Copyright (C) 2001-2018 Free Software Foundation, Inc.

```

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```

@end ifnohtml
@end titlepage

```

```

@c Table of Contents
@contents

```

```

@ifnottex
@node Top
@top GNU libunistring
@end ifnottex

```

```

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* Conventions::          Conventions used in this manual
* untypes.h::            Elementary types
* unistr.h::              Elementary Unicode string functions
* uniconv.h::             Conversions between Unicode and encodings
* unistdio.h::           Output with Unicode strings
* uniname.h::            Names of Unicode characters
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* uniwbrk.h::            Word breaks in strings
* unilbrk.h::            Line breaking
* uninorm.h::            Normalization forms
* unicast.h::            Case mappings

```

```

* uniregex.h::          Regular expressions
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* More functionality::  More advanced functionality
* The wchar_t mess::    Why @code{wchar_t *} strings are useless
* Licenses::           Licenses

* Index::              General Index

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  --- The Detailed Node Listing ---

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* Unicode and i18n::   Unicode and internationalization
* Locale encodings::   What is a locale encoding?
* In-memory representation:: How to represent strings in memory?
* char * strings::     What to keep in mind with @code{char *} strings
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```

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- * Normalizing comparisons::
- * Normalization of streams::

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@end detailmenu

@end menu

@node Introduction

@chapter Introduction

This library provides functions for manipulating Unicode strings and for manipulating C strings according to the Unicode standard.

It consists of the following parts:

- @table @code
- @item <unistr.h>
elementary string functions
- @item <unicov.h>
conversion from/to legacy encodings
- @item <unistdio.h>
formatted output to strings
- @item <uniname.h>
character names
- @item <unictype.h>
character classification and properties
- @item <uniwidth.h>
string width when using nonproportional fonts
- @item <unigbrk.h>
grapheme cluster breaks
- @item <uniwbrk.h>
word breaks
- @item <unilbrk.h>
line breaking algorithm
- @item <uninorm.h>
normalization (composition and decomposition)
- @item <unicase.h>
case folding
- @item <uniregex.h>
regular expressions (not yet implemented)

@end table

@cindex use cases

@cindex value, of libunistring

libunistring is for you if your application involves non-trivial text processing, such as upper/lower case conversions, line breaking, operations on words, or more advanced analysis of text. Text provided by the user can, in general, contain characters of all kinds of scripts. The text processing functions provided by this library handle all scripts and all languages.

libunistring is for you if your application already uses the ISO C / POSIX @posixheader{ctype.h}, @posixheader{wctype.h} functions and the text it operates on is provided by the user and can be in any language.

libunistring is also for you if your application uses Unicode strings as internal in-memory representation.

@menu

* Unicode::	What is Unicode?
* Unicode and i18n::	Unicode and internationalization
* Locale encodings::	What is a locale encoding?
* In-memory representation::	How to represent strings in memory?
* char * strings::	What to keep in mind with @code{char *} strings
* Unicode strings::	How are Unicode strings represented?

@end menu

@node Unicode

@section Unicode

@cindex Unicode

Unicode is a standardized repertoire of characters that contains characters from all scripts of the world, from Latin letters to Chinese ideographs and Babylonian cuneiform glyphs. It also specifies how these characters are to be rendered on a screen or on paper, and how common text processing (word selection, line breaking, uppercasing of page titles etc.) is supposed to behave on Unicode text.

Unicode also specifies three ways of storing sequences of Unicode characters in a computer whose basic unit of data is an 8-bit byte:

@cindex UTF-8

@cindex UTF-16

@cindex UTF-32

@cindex UCS-4

@table @asis

@item UTF-8

Every character is represented as 1 to 4 bytes.

@item UTF-16

Every character is represented as 1 to 2 units of 16 bits.

@item UTF-32, a.k.a@. UCS-4

Every character is represented as 1 unit of 32 bits.

@end table

For encoding Unicode text in a file, UTF-8 is usually used. For encoding Unicode strings in memory for a program, either of the three encoding forms can be reasonably used.

Unicode is widely used on the web. Prior to the use of Unicode, web pages were in many different encodings (ISO-8859-1 for English, French, Spanish, ISO-8859-2 for Polish, ISO-8859-7 for Greek, KOI8-R for Russian, GB2312 or BIG5 for Chinese, ISO-2022-JP-2 or EUC-JP or Shift_JIS for Japanese, and many many others). It was next to impossible to create a document that contained Chinese and Polish text in the same document. Due to the many encodings for Japanese, even the processing of pure Japanese text was error prone.

References:

@itemize @bullet

@item

The Unicode standard:@texnl{} @url{http://www.unicode.org/}

@item

Definition of UTF-8:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc3629.txt}

@item

Definition of UTF-16:@texnl{} @url{http://www.rfc-editor.org/rfc/rfc2781.txt}

@item

Markus Kuhn's UTF-8 and Unicode FAQ:@texnl{}

@url{http://www.cl.cam.ac.uk/~mgk25/unicode.html}

@end itemize

@node Unicode and i18n

@section Unicode and Internationalization

@cindex internationalization

Internationalization is the process of changing the source code of a program so that it can meet the expectations of users in any culture, if culture specific data (translations, images etc.) are provided.

Use of Unicode is not strictly required for internationalization, but it makes internationalization much easier, because operations that need to look at specific characters (like hyphenation, spell checking, or the automatic conversion of double-quotes to opening and closing double-quote characters) don't need to consider multiple possible encodings of the text.

Use of Unicode also enables multilingualization: the ability of having text in multiple languages present in the same document or even in the same line of text.

But use of Unicode is not everything. Internationalization usually consists of four features:

@itemize @bullet

@item

Use of Unicode where needed for text processing. This is what this library

```

is for.
@item
Use of message catalogs for messages shown to the user, This is what
GNU gettext is about.
@item
Use of locale specific conventions for date and time formats, for numeric
formatting, or for sorting of text. This can be done adequately with the
POSIX APIs and the implementation of locales in the GNU C library.
@item
In graphical user interfaces, adapting the GUI to the default text direction
of the current locale (see
@url{https://en.wikipedia.org/wiki/Right-to-left,right-to-left_languages}).
@end itemize

@node Locale encodings
@section Locale encodings

@cindex locale
A locale is a set of cultural conventions. According to POSIX, for a program,
at any moment, there is one locale being designated as the ``current locale''.
(Actually, POSIX supports also one locale per thread, but this feature is not
yet universally implemented and not widely used.)
@cindex locale categories
The locale is partitioned into several aspects, called the ``categories''
of the locale. The main various aspects are:
@itemize @bullet
@item
The character encoding and the character properties. This is the
@code{LC_CTYPE} category.
@item
The sorting rules for text. This is the @code{LC_COLLATE} category.
@item
The language specific translations of messages. This is the
@code{LC_MESSAGES} category.
@item
The formatting rules for numbers, such as the decimal separator. This is
the @code{LC_NUMERIC} category.
@item
The formatting rules for amounts of money. This is the @code{LC_MONETARY}
category.
@item
The formatting of date and time. This is the @code{LC_TIME} category.
@end itemize

@cindex locale encoding
In particular, the @code{LC_CTYPE} category of the current locale determines
the character encoding. This is the encoding of @samp{char *} strings.
We also call it the ``locale encoding''. GNU libunistring has a function,
@func{locale_charset}, that returns a standardized (platform independent)
name for this encoding.

```

All locale encodings used on glibc systems are essentially ASCII compatible: Most graphic ASCII characters have the same representation, as a single byte, in that encoding as in ASCII.

Among the possible locale encodings are UTF-8 and GB18030. Both allow to represent any Unicode character as a sequence of bytes. UTF-8 is used in most of the world, whereas GB18030 is used in the People's Republic of China, because it is backward compatible with the GB2312 encoding that was used in this country earlier.

The legacy locale encodings, ISO-8859-15 (which supplanted ISO-8859-1 in most of Europe), ISO-8859-2, KOI8-R, EUC-JP, etc., are still in use in some places, though.

UTF-16 and UTF-32 are not used as locale encodings, because they are not ASCII compatible.

@node In-memory representation
 @section Choice of in-memory representation of strings

There are three ways of representing strings in memory of a running program.

@itemize @bullet
 @item

As @samp{char *} strings. Such strings are represented in locale encoding. This approach is employed when not much text processing is done by the program. When some Unicode aware processing is to be done, a string is converted to Unicode on the fly and back to locale encoding afterwards.

@item

As UTF-8 or UTF-16 or UTF-32 strings. This implies that conversion from locale encoding to Unicode is performed on input, and in the opposite direction on output. This approach is employed when the program does a significant amount of text processing, or when the program has multiple threads operating on the same data but in different locales.

@item

As @samp{wchar_t *}, a.k.a. ``wide strings''. This approach is misguided, see @ref{The wchar_t mess}.

@end itemize

Of course, a @samp{char *} string can, in some cases, be encoded in UTF-8. You will use the data type depending on what you can guarantee about how it's encoded: If a string is encoded in the locale encoding, or if you don't know how it's encoded, use @samp{char *}. If, on the other hand, you can @emph{guarantee} that it is UTF-8 encoded, then you can use the UTF-8 string type, @code{uint8_t *}, for it.

The five types @code{char *}, @code{uint8_t *}, @code{uint16_t *}, @code{uint32_t *}, and @code{wchar_t *} are incompatible types at the C level. Therefore, @samp{gcc -Wall} will produce a warning if, by mistake,

your code contains a mismatch between these types. In the context of using GNU libunistring, even a warning about a mismatch between `{char *}` and `{uint8_t *}` is a sign of a bug in your code that you should not try to silence through a cast.

```
@node char * strings
@section @samp{char *} strings
```

```
@cindex C string functions
```

The classical C strings, with its C library support standardized by ISO C and POSIX, can be used in internationalized programs with some precautions. The problem with this API is that many of the C library functions for strings don't work correctly on strings in locale encodings, leading to bugs that only people in some cultures of the world will experience.

```
@cindex locale, multibyte
```

The first problem with the C library API is the support of multibyte locales. According to the locale encoding, in general, every character is represented by one or more bytes (up to 4 bytes in practice --- but use `{MB_LEN_MAX}` instead of the number 4 in the code). When every character is represented by only 1 byte, we speak of an `'unibyte locale'`, otherwise of a `'multibyte locale'`. It is important to realize that the majority of Unix installations nowadays use UTF-8 or GB18030 as locale encoding; therefore, the majority of users are using multibyte locales.

```
@cindex char, type
```

The important fact to remember is:

```
@cartouche
@emph{A @samp{char} is a byte, not a character.}
@end cartouche
```

As a consequence:

```
@itemize @bullet
@item
```

The `{ctype.h}` API is useless in this context; it does not work in multibyte locales.

```
@item
```

The `{strlen}` function does not return the number of characters in a string. Nor does it return the number of screen columns occupied by a string after it is output. It merely returns the number of `{bytes}` occupied by a string.

```
@item
```

Truncating a string, for example, with `{strncpy}`, can have the effect of truncating it in the middle of a multibyte character. Such a string will, when output, have a garbled character at its end, often represented by a hollow box.

```
@item
```

`{strchr}` and `{strrchr}` do not work with multibyte strings

if the locale encoding is GB18030 and the character to be searched is a digit.

@item

@posixfunc{strstr} does not work with multibyte strings if the locale encoding is different from UTF-8.

@item

@posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn} cannot work correctly in multibyte locales: they assume the second argument is a list of single-byte characters. Even in this simple case, they do not work with multibyte strings if the locale encoding is GB18030 and one of the characters to be searched is a digit.

@item

@posixfunc{strsep} and @posixfunc{strtok_r} do not work with multibyte strings unless all of the delimiter characters are ASCII characters < 0x30.

@item

The @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr} functions do not work with multibyte strings.

@end itemize

The workarounds can be found in GNU glibc

@url{<http://www.gnu.org/software/glibc/>}.

@itemize @bullet

@item

glibc has modules @samp{mbchar}, @samp{mbiter}, @samp{mbuiter} that represent multibyte characters and allow to iterate across a multibyte string with the same ease as through a unibyte string.

@item

glibc has functions @func{mbslen} and @func{mbswidth} that can be used instead of @posixfunc{strlen} when the number of characters or the number of screen columns of a string is requested.

@item

glibc has functions @func{mbschr} and @func{mbsrchr} that are like @posixfunc{strchr} and @posixfunc{strrchr}, but work in multibyte locales.

@item

glibc has a function @func{mbsstr}, like @posixfunc{strstr}, but works in multibyte locales.

@item

glibc has functions @func{mbscspn}, @func{mbspbrk}, @func{mbssp} that are like @posixfunc{strcspn}, @posixfunc{strpbrk}, @posixfunc{strspn}, but work in multibyte locales.

@item

glibc has functions @func{mbssep} and @func{mbstok_r} that are like @posixfunc{strsep} and @posixfunc{strtok_r} but work in multibyte locales.

@item

glibc has functions @func{mbscasemp}, @func{mbsncasemp}, @func{mbspcasemp}, and @func{mbscasestr} that are like @posixfunc{strcasemp}, @posixfunc{strncasemp}, and @posixfunc{strcasestr}, but work in multibyte locales. Still, the function @code{ulc_casemp} is preferable to these functions; see below.

@end itemize

The second problem with the C library API is that it has some assumptions built-in that are not valid in some languages:

@itemize @bullet

@item

It assumes that there are only two forms of every character: uppercase and lowercase. This is not true for Croatian, where the character

@sc{LETTER DZ WITH CARON} comes in three forms:

@sc{LATIN CAPITAL LETTER DZ WITH CARON} (DZ),

@sc{LATIN CAPITAL LETTER D WITH SMALL LETTER Z WITH CARON} (Dz),

@sc{LATIN SMALL LETTER DZ WITH CARON} (dz).

@item

It assumes that uppercasing of 1 character leads to 1 character. This is not true for German, where the @sc{LATIN SMALL LETTER SHARP S}, when uppercased, becomes @samp{SS}.

@item

It assumes that there is 1:1 mapping between uppercase and lowercase forms.

This is not true for the Greek sigma: @sc{GREEK CAPITAL LETTER SIGMA} is

the uppercase of both @sc{GREEK SMALL LETTER SIGMA} and

@sc{GREEK SMALL LETTER FINAL SIGMA}.

@item

It assumes that the upper/lowercase mappings are position independent.

This is not true for the Greek sigma and the Lithuanian i.

@end itemize

The correct way to deal with this problem is

@enumerate

@item

to provide functions for titlecasing, as well as for upper- and lowercasing,

@item

to view case transformations as functions that operates on strings, rather than on characters.

@end enumerate

This is implemented in this library, through the functions declared in @code{<unicase.h>}, see @ref{unicase.h}.

@node Unicode strings

@section Unicode strings

libunistring supports Unicode strings in three representations:

@cindex UTF-8, strings

@cindex UTF-16, strings

@cindex UTF-32, strings

@itemize @bullet

@item

UTF-8 strings, through the type @samp{uint8_t *}. The units are bytes (@code{uint8_t}).

@item

UTF-16 strings, through the type @samp{uint16_t *}, The units are 16-bit memory words (@code{uint16_t}).

@item

UTF-32 strings, through the type @samp{uint32_t *}. The units are 32-bit memory words (@code{uint32_t}).

@end itemize

As with C strings, there are two variants:

@itemize @bullet

@item

Unicode strings with a terminating NUL character are represented as a pointer to the first unit of the string. There is a unit containing a 0 value at the end. It is considered part of the string for all memory allocation purposes, but is not considered part of the string for all other logical purposes.

@item

Unicode strings where embedded NUL characters are allowed. These are represented by a pointer to the first unit and the number of units (not bytes!) of the string. In this setting, there is no trailing zero-valued unit used as ``end marker''.

@end itemize

@node Conventions

@chapter Conventions

This chapter explains conventions valid throughout the libunistring library.

@cindex argument conventions

Variables of type @code{char *} denote C strings in locale encoding.

See @ref{Locale encodings}.

Variables of type @code{uint8_t *} denote UTF-8 strings. Their units are bytes.

Variables of type @code{uint16_t *} denote UTF-16 strings, without byte order mark. Their units are 2-byte words.

Variables of type @code{uint32_t *} denote UTF-32 strings, without byte order mark. Their units are 4-byte words.

Argument pairs @code{(@var{s}, @var{n})} denote a string

@code{@var{s}[0..@var{n}-1]} with exactly @var{n} units.

All functions with prefix @samp{ulc_} operate on C strings in locale encoding.

All functions with prefix @samp{u8_} operate on UTF-8 strings.

All functions with prefix @samp{u16_} operate on UTF-16 strings.

All functions with prefix @samp{u32_} operate on UTF-32 strings.

For every function with prefix @samp{u8_}, operating on UTF-8 strings, there is also a corresponding function with prefix @samp{u16_}, operating on UTF-16 strings, and a corresponding function with prefix @samp{u32_}, operating on UTF-32 strings. Their description is analogous; in this documentation we describe only the function that operates on UTF-8 strings, for brevity.

A declaration with a variable @var{n} denotes the three concrete declarations with @var{n} = 8, @var{n} = 16, @var{n} = 32.

All parameters starting with @samp{str} and the parameters of functions starting with @code{u8_str}/@code{u16_str}/@code{u32_str} denote a NUL terminated string.

@cindex return value conventions

Error values are always returned through the @code{errno} variable, usually with a return value that indicates the presence of an error (NULL for functions that return a pointer, or -1 for functions that return an @code{int}).

Functions returning a string result take a

@code{(@var{resultbuf}, @var{lengthp})}

argument pair. If @var{resultbuf} is not NULL and the result fits into @code{*@var{lengthp}} units, it is put in @var{resultbuf}, and @var{resultbuf} is returned. Otherwise, a freshly allocated string is returned. In both cases, @code{*@var{lengthp}} is set to the length (number of units) of the returned string. In case of error, NULL is returned and @code{errno} is set.

@include unitypes.texi

@include unistr.texi

@include uniconv.texi

@include unistdio.texi

@include uniname.texi

@include unictype.texi

@include uniwidth.texi

@include unigbrk.texi

@include uniwbrk.texi

@include unilbrk.texi

@include uninorm.texi

@include unicastexi

@include uniregex.texi

@node Using the library

@chapter Using the library

This chapter explains some practical considerations, regarding the installation and compiler options that are needed in order to use this

```
library.
```

```
@menu
* Installation::
* Compiler options::
* Include files::
* Autoconf macro::
* Reporting problems::
@end menu
```

```
@node Installation
@section Installation
```

```
@cindex dependencies
Before you can use the library, it must be installed. First, you have to
make sure all dependencies are installed. They are listed in the file
@file{DEPENDENCIES}.
```

```
@cindex installation
Then you can proceed to build and install the library, as described in the
file @file{INSTALL}. For installation on Windows systems, please refer to
the file @file{INSTALL.windows}.
```

```
@node Compiler options
@section Compiler options
```

Let's denote as @code{LIBUNISTRING_PREFIX} the value of the @samp{--prefix} option that you passed to @code{configure} while installing this package. If you didn't pass any @samp{--prefix} option, then the package is installed in @file{/usr/local}.

Let's denote as @code{LIBUNISTRING_INCLUDEDIR} the directory where the include files were installed. This is usually the same as @code{\${LIBUNISTRING_PREFIX}/include}. Except that if you passed an @samp{--includedir} option to @code{configure}, it is the value of that option.

Let's further denote as @code{LIBUNISTRING_LIBDIR} the directory where the library itself was installed. This is the value that you passed with the @samp{--libdir} option to @code{configure}, or otherwise the same as @code{\${LIBUNISTRING_PREFIX}/lib}. Recall that when building in 64-bit mode on a 64-bit GNU/Linux system that supports executables in either 64-bit mode or 32-bit mode, you should have used the option @code{--libdir=\${LIBUNISTRING_PREFIX}/lib64}.

```
@cindex compiler options
So that the compiler finds the include files, you have to pass it the
option @code{-I${LIBUNISTRING_INCLUDEDIR}}.
```

So that the compiler finds the library during its linking pass, you have

to pass it the options `-L${LIBUNISTRING_LIBDIR} -lunistring`. On some systems, in some configurations, you also have to pass options needed for linking with `libiconv`. The autoconf macro `gl_LIBUNISTRING` (see [@ref{Autoconf macro}](#)) deals with this particularity.

@node Include files
@section Include files

Most of the include files have been presented in the introduction, see [@ref{Introduction}](#), and subsequent detailed chapters.

Another include file is `<unistring/version.h>`. It contains the version number of the libunistring library.

@deftypevr Macro int `_LIBUNISTRING_VERSION`
This constant contains the version of libunistring that is being used at compile time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `{major<<8} + minor`.
@end deftypevr

@deftypevr Constant int `_libunistring_version`
This constant contains the version of libunistring that is being used at run time. It encodes the major and minor parts of the version number only. These parts are encoded in the form `{major<<8} + minor`.
@end deftypevr

It is possible that `_libunistring_version` is greater than `_LIBUNISTRING_VERSION`. This can happen when you use `libunistring` as a shared library, and a newer, binary backward-compatible version has been installed after your program that uses `libunistring` was installed.

@node Autoconf macro
@section Autoconf macro

@cindex autoconf macro
GNU Gnulib provides an autoconf macro that tests for the availability of `libunistring`. It is contained in the Gnulib module `@samp{libunistring}`, see [@texnl{}](#)
[@url{http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring}](http://www.gnu.org/software/gnulib/MODULES.html#module=libunistring).

@amindex `gl_LIBUNISTRING`
The macro is called `gl_LIBUNISTRING`. It searches for an installed libunistring. If found, it sets and AC_SUBSTs `HAVE_LIBUNISTRING=yes` and the `LIBUNISTRING` and `LTLIBUNISTRING` variables and augments the `CPPFLAGS` variable, and defines the C macro `HAVE_LIBUNISTRING` to 1. Otherwise, it sets and AC_SUBSTs `HAVE_LIBUNISTRING=no` and `LIBUNISTRING` and `LTLIBUNISTRING` to empty.

The complexities that `gl_LIBUNISTRING` deals with are the following:

`@itemize @bullet`

`@item`

On some operating systems, in some configurations, `libunistring` depends on `libiconv`, and the options for linking with `libiconv` must be mentioned explicitly on the link command line.

`@item`

GNU `libunistring`, if installed, is not necessarily already in the search path (`CPPFLAGS` for the include file search path, `LDFLAGS` for the library search path).

`@item`

GNU `libunistring`, if installed, is not necessarily already in the run time library search path. To avoid the need for setting an environment variable like `LD_LIBRARY_PATH`, the macro adds the appropriate run time search path options to the `LIBUNISTRING` variable. This works on most systems.

`@end itemize`

`@node Reporting problems`

`@section Reporting problems`

`@cindex bug reports`

`@cindex bug tracker`

`@cindex mailing list`

If you encounter any problem, please don't hesitate to send a detailed bug report to the `bug-libunistring@gnu.org` mailing list. You can alternatively also use the bug tracker at the project page [@url{https://savannah.gnu.org/projects/libunistring}](https://savannah.gnu.org/projects/libunistring).

Please always include the version number of this library, and a short description of your operating system and compilation environment with corresponding version numbers.

For problems that appear while building and installing `libunistring`, for which you don't find the remedy in the `INSTALL` file, please include a description of the options that you passed to the `configure` script.

`@node More functionality`

`@chapter More advanced functionality`

`@cindex bidirectional reordering`

For bidirectional reordering of strings, we recommend the GNU FriBidi library: [@url{http://www.fribidi.org/}](http://www.fribidi.org/).

`@cindex rendering`

For the rendering of Unicode strings outside of the context of a given toolkit

(KDE/Qt or GNOME/Gtk), we recommend the Pango library:
[@url{http://www.pango.org/}](http://www.pango.org/).

@include wchar_t.texi

@node Licenses
 @appendix Licenses
 @cindex Licenses

The files of this package are covered by the licenses indicated in each particular file or directory. Here is a summary:

@itemize @bullet

@item

The `{libunistring}` library and its header files are dual-licensed under "the GNU LGPLv3+ or the GNU GPLv2". This means, you can use it under either

@itemize @bullet

@item @minus{}

the terms of the GNU Lesser General Public License (LGPL) version 3 or (at your option) any later version, or

@item @minus{}

the terms of the GNU General Public License (GPL) version 2, or

@item @minus{}

the same dual license "the GNU LGPLv3+ or the GNU GPLv2".

@end itemize

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@*

You can find the GNU GPL version 2 at

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@*

Note: This dual license makes it possible for the `{libunistring}` library to be used by packages under GPLv2 or GPLv2+ licenses, in particular. See the table in [@url{https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility}](https://www.gnu.org/licenses/gpl-faq.html#AllCompatibility).

@item

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@end itemize

@menu

* GNU GPL::	GNU General Public License
* GNU LGPL::	GNU Lesser General Public License
* GNU FDL::	GNU Free Documentation License

@end menu

@page

@node GNU GPL

@appendixsec GNU GENERAL PUBLIC LICENSE

@cindex GPL, GNU General Public License

@cindex License, GNU GPL

@include gpl.texi

@page

@node GNU LGPL

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, GNU Lesser General Public License

@cindex License, GNU LGPL

@include lgpl.texi

@page

@node GNU FDL

@appendixsec GNU Free Documentation License

@cindex FDL, GNU Free Documentation License

@cindex License, GNU FDL

@include fdl.texi

@node Index

@unnumbered Index

@printindex cp

@bye

@c Local Variables:

@c indent-tabs-mode: nil

@c whitespace-check-buffer-indent: nil

@c End:

=====
libunwind-1.5.0: COPYING
=====

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```
=====
liburcu-0.12.2: LICENSE
=====
```

Userspace RCU library licensing
 Mathieu Desnoyers
 September 3, 2012

* LGPLv2.1

The library part is distributed under LGPLv2.1 or later. See lgpl-2.1.txt for license details. Refer to the individual file headers for details.

LGPL-compatible source code can statically use the library header using :

```
#define _LGPL_SOURCE
#include <urcu.h>
```

Dynamic-only linking with the LGPL library is used if `_LGPL_SOURCE` is not defined. It permits relinking with newer versions of the library, which is required by the LGPL license.

See `lgpl-relicensing.txt` for details.

* MIT-style license :

`xchg()` primitive has been rewritten from scratch starting from `atomic_ops 1.2` which has a MIT-style license that is intended to allow use in both free and proprietary software:

http://www.hpl.hp.com/research/linux/atomic_ops/LICENSING.txt

http://www.hpl.hp.com/personal/Hans_Boehm/gc/gc_source/

This MIT-style license (BSD like) apply to:

```
uatonic/gcc.h
uatonic/unknown.h
uatonic/generic.h
uatonic/sparc64.h
uatonic/arm.h
uatonic/ppc.h
uatonic/x86.h
uatonic.h
```

MIT/X11 (BSD like) license apply to:

```
compiler.h
arch/s390.h
uatonic/alpha.h
uatonic/mips.h
uatonic/nios2.h
uatonic/s390.h
system.h
```

* GPLv2

Library test code is distributed under the GPLv2 license. See gpl-2.0.txt for license details. See headers of individual files under tests/ for details.

* GPLv3 (or later)

The following build-related macro is under GPLv3 (or later):

```
m4/ax_tls.m4
```

```
=====
liburcu-0.12.2: include/urcu/urcu.h, 4-32
=====
```

```
/*
 * urcu.h
 *
 * Userspace RCU header
 *
 * Copyright (c) 2009 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
 * Copyright (c) 2009 Paul E. McKenney, IBM Corporation.
 *
 * LGPL-compatible code should include this header with :
 *
```

```

* #define _LGPL_SOURCE
* #include <urcu.h>
*
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* Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
*
* IBM's contributions to this file may be relicensed under LGPLv2 or later.
*/

```

```

=====
liburcu-0.12.2: include/urcu/uatomic/x86.h, 4-21
=====

```

```

/*
* Copyright (c) 1991-1994 by Xerox Corporation. All rights reserved.
* Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved.
* Copyright (c) 1999-2004 Hewlett-Packard Development Company, L.P.
* Copyright (c) 2009 Mathieu Desnoyers
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* Permission to modify the code and to distribute modified code is granted,
* provided the above notices are retained, and a notice that the code was
* modified is included with the above copyright notice.
*
* Code inspired from libuatomic_ops-1.2, inherited in part from the
* Boehm-Demers-Weiser conservative garbage collector.
*/

```

```

=====
libusb1-1.0.24: COPYING
=====

```

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Version 2.1, February 1999

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with the library after making changes to the library and recompiling
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We protect your rights with a two-step method: (1) we copyright the
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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 (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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- b) Use a suitable shared library mechanism for linking with the

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```

/* lib/font/fontfile/gunzip.c
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libxi-1.7.10: src/XIGetDevFocus.c, 1-23
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=====
libxinerama-1.1.4: src/Xinerama.c, 2-25
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libxml2-2.9.10: hash.c, 6-15
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=====

```
lttng-ust-2.12.1: snprintf/snprintf.c, 1-32
```

```
=====
```

```
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```
lttng-ust-2.12.1: snprintf/variou.h, 1-31
```

```
=====
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```

=====
lzo-2.10: src/lzo_init.c, 5-25
=====

```

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```

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```
=====
mtd-utils-2.1.2: include/common.h, 1-17
=====
```

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```
=====
ncurses-6.2: ncurses/base/version.c, 1-27
=====
```

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=====
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=====

```

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```

=====
nettle-3.7.3: serpent-decrypt.c, 14-36
nettle-3.7.3: serpent-set-key.c, 14-36
=====

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novnc-1.1.0+git: LICENSE.txt
=====
```

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=====
openssl-1.1.1l: LICENSE
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```
=====
shadow-4.8.1: src/passwd.c, 2-30
=====
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sqlite3-3.35.0: sqlite3.h, 1-11
=====
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=====
x11vnc-0.9.16+git: src/x11vnc.h, 1-31
=====
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xcb-util-0.4.0: src/xcb_aux.c, 1-30
=====
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=====
xcb-util-0.4.0: src/xcb_event.h, 1-27
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```
=====
xcb-util-image-0.4.0: image/xcb_image.c, 1-24
=====
```

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```
=====
xcb-util-image-0.4.0: image/xcb_image.h, 4-27
=====
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=====
xcb-util-keysyms-0.4.0: keysyms/keysyms.c, 1-30
=====
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```
=====
xcb-util-renderutil-0.3.9: renderutil/glyph.c, 1-24
=====
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=====
xcb-util-renderutil-0.3.9: renderutil/util.c, 1-20
=====

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=====
xcb-util-renderutil-0.3.9: renderutil/xcb_renderutil.h, 1-24
=====

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```
=====
xcb-util-wm-0.4.1: ewmh/ewmh.c.m4, 1-27
=====
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=====
xcb-util-wm-0.4.1: ewmh/xcb_ewmh.h.m4, 4-30
=====

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=====
xcb-util-wm-0.4.1: icccm/icccm.c, 1-28
=====

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=====
xcb-util-wm-0.4.1: icccm/xcb_icccm.h, 4-31
=====

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```
=====
xterm-367: xterm.h, 3-31
=====
```

```
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xz-5.2.5: COPYING
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```

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=====

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```
=====
xz-5.2.5: lib/getopt.c, 1-23
=====
```

```
/* Getopt for GNU.
NOTE: getopt is now part of the C library, so if you don't know what
"Keep this file name-space clean" means, talk to drepper@gnu.org
before changing it!
Copyright (C) 1987,88,89,90,91,92,93,94,95,96,98,99,2000,2001,2002,2003,2004,2006
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```

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```
#ifndef _LIBC
```

```
=====
zeromq-4.3.4: COPYING.LESSER
=====
```

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```
=====  
zlib-1.2.11: zlib.h, 6-23  
=====
```

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