

# R&S® FPL1000 V2.20SP1

## R&S® Spectrum Analyzer

### Open Source Acknowledgment



1304011000  
Version 31.00

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This document is valid for the following Rohde & Schwarz instruments:

- R&S® FPL1003 Spectrum Analyzer
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- R&S® FPL1014 Spectrum Analyzer
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angular/platform-browser-dynamic	8.2.14	<a href="#">MIT License</a>
angular/router	8.2.14	<a href="#">MIT License</a>
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ZLib	1.2.11	<a href="#">zlib License</a>
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added two files in devpackage and changed cmakefile.txt for find\_package

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Version 3, 29 June 2007

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December 9, 2010

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MD4 (RFC-1320) message digest.

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Freetype 2 - Bitmap Distribution Format (BDF) support

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See also: "Polygon Offsetting by Computing Winding Numbers" Paper no. pp. 565-575 ASME 2005 International Design Engineering Technical

## Conferences

Computers and Information in Engineering Conference (IDETC/CIE2005)  
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## D Qt Commercial WebEngine

Attributions for Qt WebEngine 5.15.13

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Almost Native Graphics Layer Engine

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

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Brotli

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

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bspatch

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

library.

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

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Chromium OS system API

Project Homepage: <http://www.chromium.org/chromium-os>

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Closure compiler

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

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Cocoa extension code from Camino

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Compact Encoding Detection

Project Homepage: [https://github.com/google/compact\\_enc\\_det](https://github.com/google/compact_enc_det)

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Compact Language Detector v3 Project Homepage:  
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d3

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dom-distiller-js

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Expat XML Parser

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

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them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are: - libpostproc - optional x86  
in the files



```

- `libavcodec/x86/flac_dsp_gpl.asm` - `libavcodec/x86/idct_mmx.c` -
- the following building and testing tools
- `compat/solaris/make_sunver.pl` - `doc/t2h.pm` - `doc/texti2pod.pl` -
- `tests/checkasm/*` - `tests/tiny_ssim.c`
- the following filters in libavfilter:
- `signature_lookup.c` - `vf_blackframe.c` - `vf_boxblur.c` -
- `vf_cover_rect.c` - `vf_cropdetect.c` - `vf_delogo.c` - `vf_eq.c` -
- `vf_fspp.c` - `vf_histeq.c` - `vf_hqdn3d.c` - `vf_kerndeint.c` -
  (GPL version 3 or later) - `vf_mcdeint.c` - `vf_mpdecimate.c` -
`vf_nnedi.c`
  `vf_owdenoise.c` - `vf_perspective.c` - `vf_phase.c` - `vf_pp.c` -
`vf_pp7.c`

- `vf_pullup.c` - `vf_repeatfields.c` - `vf_sab.c` - `vf_signature.c`
-
- `vf_spp.c` - `vf_stereo3d.c` - `vf_super2xsai.c` - `vf_tinterlace.c`
-
- `vf_vaguedenoiser.c` - `vsrc_mptestsrc.c`
Should you, for whatever reason, prefer to use version 3 of the (L)GPL,
then
  configure parameter `--enable-version3` will activate this licensing
option for
  Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts,
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handful of
  under other licensing terms, namely: * The files
`libavcodec/jfdctfst.c`,
  and
  `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files
for
  details. Specifically note that you must credit the IJG in the
documentation
  your program if you only distribute executables. You must also indicate
any
  including additions and deletions to those three files in the
documentation.
  * `tests/reference.pnm` is under the expat license.

## External libraries

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

The following libraries are under GPL version 2: - avisynth - frei0r -
libcdio
  libdavs2 - librubberband - libvidstab - libx264 - libx265 - libxavs -
libxavs2
  libxvid When combining them with FFmpeg, FFmpeg needs to be licensed as
GPL as

```

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

3:

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

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache

2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not

version 3 of those licenses. So to combine these libraries with FFmpeg, the

version needs to be upgraded by passing `--enable-version3` to configure. The

library is under the GPL v3, to combine it with FFmpeg, the options and `--enable-version3` have to be passed to configure to upgrade FFmpeg

to the

v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not

with the GPL and/or the LGPL. If you wish to enable these libraries, even in

that their license may be incompatible, pass `--enable-nonfree` to configure.

will cause the resulting binary to be unredistributable. The Fraunhofer FDK AAC

OpenSSL libraries are under licenses which are incompatible with the GPLv2 and

To the best of our knowledge, they are compatible with the LGPL.

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libavcodec/arm/jrevdct\_arm.S

C-like prototype :

```
void j_rev_dct_arm(DCTBLOCK data)
```

With DCTBLOCK being a pointer to an array of 64 'signed shorts'

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bbrox@bbrox.org)

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libavcodec/arm/vp8dsp\_armv6.S

VP8 ARMv6 optimisations

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libavcodec/mips/acelp\_vectors\_mips.c

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libavcodec/mips/amrwbdec\_mips.c

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libavcodec/mips/celp\_math\_mips.c

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libavcodec/mips/fft\_mips.c

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Optimized MDCT/IMDCT and FFT transforms

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libavcodec/mips/mpegauddsp\_mips\_float.c

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*****

libavcodec/x86/xvididct.asm XVID MPEG-4 VIDEO CODEC

Conversion from gcc syntax to x264asm syntax with modifications

by Christophe Gisquet <christophe.gisquet@gmail.com>

===== SSE2 inverse discrete cosine transform =====
Copyright (C)
Pascal Massimino <skal@planet-d.net>;

Conversion to gcc syntax with modifications by Alexander Strange

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

Horizontal pass is a double 4x4 vector/matrix multiplication, (see also
Intel's
Note 922:
  http://developer.intel.com/vtune/cbts/strmsimd/922down.htm Copyright
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  Corporation)
More details at http://skal.planet-d.net/coding/dct.html

===== MMX and XMM forward discrete cosine transform =====

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by
at AP-922 http://developer.intel.com/vtune/cbts/strmsimd/922down.htm
(See more
notes at http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm)
but in a
edition. New macro implements a column part for precise iDCT The routine
now satisfies IEEE standard 1180-1990. Copyright (C) 2000-2001 Peter
Gubanov

```

Rounding trick Copyright (C) 2000 Michel Lespinasse  
&lt;walken@zoy.org&gt;

<http://www.elecard.com/peter/idct.html>  
<http://www.linuxvideo.org/mpeg2dec/>

These examples contain code fragments for first stage idCT 8x8 (for rows) and stage DCT 8x8 (for columns) conversion to gcc syntax by Michael Niedermayer

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libavformat/oggparsetheora.c

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libavutil/avsscanf.c

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libswresample/version.h Version macros.

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libavcodec/fft\_table.h  
libavcodec/mips/aacdec\_mips.c libavcodec/mips/aacdec\_mips.h  
libavcodec/mips/aacsbr\_mips.c libavcodec/mips/aacsbr\_mips.h

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

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libavformat/oggparsevorbis.c

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google-glog's symbolization library

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./test/cholesky.cpp ./test/geo_quaternion.cpp ./test/miscmatrices.cpp
./test/integer_types.cpp ./test/product_large.cpp
./test/householder.cpp ./test/geo_orthomethods.cpp
./test/array_for_matrix.cpp
./test/upperbidiagonalization.cpp ./test/nomalloc.cpp
./test/packetmath.cpp
./test/geo_transformations.cpp ./test/swap.cpp
./test/inverse.cpp ./test/product_selfadjoint.cpp
./test/product_trsolve.cpp
./test/sparse_solver.h ./test/mapstride.cpp

./test/mapped_matrix.cpp ./test/geo_eulerangles.cpp
./test/eigen2support.cpp
./test/stdvector.cpp ./test/nesting_ops.cpp
./test/sparse_permutations.cpp
./test/exceptions.cpp ./test/vectorwiseop.cpp ./test/cwiseop.cpp
./test/product_trmm.cpp ./test/linearstructure.cpp
./test/sparse_product.cpp
./test/stable_norm.cpp ./test/umeyama.cpp ./test/unalignedcount.cpp
./test/product_mmtr.cpp ./test/sparse_basic.cpp ./test/sparse_vector.cpp
./test/real_qz.cpp ./test/ref.cpp ./test/eigensolver_complex.cpp
./test/conjugate_gradient.cpp ./test/sparse.h
./test/simplicial_cholesky.cpp
./test/dynalloc.cpp ./test/product_notemporary.cpp
./test/geo_hyperplane.cpp
./test/qr.cpp ./test/hessenberg.cpp ./test/sizeof.cpp ./test/main.h
./test/permutationmatrices.cpp ./test/superlu_support.cpp
./test/qtvector.cpp
./test/determinant.cpp ./test/array_reverse.cpp
./test/unalignedassert.cpp
./test/product_symm.cpp ./test/corners.cpp ./test/dontalign.cpp

./test/geo_alignedbox.cpp ./test/diagonalmatrices.cpp
./test/product_small.cpp
./test/umfpack_support.cpp ./test/first_aligned.cpp
./test/qr_fullpivoting.cpp
./test/geo_parametrizedline.cpp ./test/eigen2/eigen2_unalignedassert.cpp
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./test/eigen2/eigen2_svd.cpp ./test/eigen2/eigen2_mixingtypes.cpp
./test/eigen2/eigen2_cwiseop.cpp
./test/eigen2/eigen2_smallvectors.cpp
./test/eigen2/eigen2_commainitializer.cpp
./test/eigen2/eigen2_hyperplane.cpp ./test/eigen2/eigen2_eigensolver.cpp
./test/eigen2/eigen2_sizeof.cpp

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./test/eigen2/eigen2_adjoint.cpp ./test/eigen2/eigen2_geometry.cpp
./test/eigen2/eigen2_newstdvector.cpp
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./test/eigen2/eigen2_regression.cpp

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./test/product.h ./test/block.cpp ./test/vectorization_logic.cpp
./test/diagonal.cpp ./test/schur_complex.cpp ./test/sizeoverflow.cpp
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./lapack/complex_double.cpp ./lapack/cholesky.cpp
./lapack/lapack_common.h
./lapack/single.cpp ./lapack/lu.cpp ./lapack/complex_single.cpp
./demos/mix_eigen_and_c/binary_library.cpp
./demos/mix_eigen_and_c/example.c ./demos/mandelbrot/mandelbrot.cpp
./demos/opengl/icosphere.cpp ./demos/opengl/icosphere.h
./demos/opengl/quaternion_demo.h ./demos/opengl/camera.h
./demos/opengl/gpuhelper.h ./demos/opengl/trackball.cpp
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./unsupported/test/openglsupport.cpp ./unsupported/test/jacobisvd.cpp

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./unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
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```

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./unsupported/Eigen/Splines ./unsupported/Eigen/MPRealSupport
./unsupported/Eigen/MoreVectorization
./unsupported/Eigen/LevenbergMarquardt
./unsupported/Eigen/FFT ./unsupported/Eigen/Polynomials
./unsupported/Eigen/Skyline ./COPYING.README ./COPYING.README ./LICENSE
./LICENSE ./Eigen/Eigen2Support ./Eigen/src/Eigen2Support/VectorBlock.h
./Eigen/src/Eigen2Support/Minor.h ./Eigen/src/Eigen2Support/Lazy.h
./Eigen/src/Eigen2Support/MathFunctions.h
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./Eigen/src/SparseCore/SparseView.h ./Eigen/src/SparseCore/SparseFuzzy.h

```

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./Eigen/src/Eigenvalues/MatrixBaseEigenvalues.h

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./Eigen/src/Core/ForceAlignedAccess.h ./Eigen/src/Core/BandMatrix.h
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./Eigen/src/Core/DenseStorage.h ./Eigen/src/Core/util/Memory.h
./Eigen/src/Core/util/BlasUtil.h ./Eigen/src/Core/util/MatrixMapper.h
./Eigen/src/Core/util/ForwardDeclarations.h ./Eigen/src/Core/util/Meta.h
./Eigen/src/Core/util/Constants.h ./Eigen/src/Core/CwiseNullaryOp.h
./Eigen/src/Core/GeneralProduct.h ./Eigen/src/Core/CommaInitializer.h
./Eigen/src/Core/Stride.h ./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
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./Eigen/StdList ./Eigen/StdDeque ./Eigen/SparseCholesky
./scripts/relicense.py
./blas/BandTriangularSolver.h ./blas/PackedTriangularMatrixVector.h
./blas/level2_real_impl.h ./blas/level1_cplx_impl.h ./blas/level1_impl.h
./blas/level3_impl.h ./blas/single.cpp ./blas/level2_cplx_impl.h
./blas/Rank2Update.h ./blas/complex_single.cpp
./blas/double.cpp ./blas/common.h ./blas/level2_impl.h
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Component
Component Location Primary Author License
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    include/GL/glxext.h

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Headers for the Windows 10 WebAuthn API (webauthn.dll)

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

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LevelDB: A Fast Persistent Key-Value Store

Project Homepage: <https://github.com/google/leveldb.git>

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libaddressinput

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libavif - Library for encoding and decoding .avif files

Project Homepage: <https://github.com/AOMediaCodec/libavif>

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source  
from the same place satisfies the requirement to distribute the source  
code,  
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it, is called a "work that uses the Library". Such a work, in isolation, is not derivative work of the Library, and therefore falls outside the scope of this

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative

of the Library even though the source code is not. Whether this is true is

significant if the work can be linked without the Library, or if the work is

a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions

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

of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library

still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

containing that work also fall under Section 6, whether or not they are linked

with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work portions of the Library, and distribute that work under terms of your choice,

that the terms permit modification of the work for the customer's own use and

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this

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as a reference directing the user to the copy of this License. Also, you must

one of these things:

a) Accompany the work with the complete corresponding machine-readable source

for the Library including whatever changes were used in the work (which must

distributed under Sections 1 and 2 above); and, if the work is an executable

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

as object code and/or source code, so that the user can modify the Library

then relink to produce a modified executable containing the modified Library.

is understood that the user who changes the contents of definitions files in

Library will not necessarily be able to recompile the application to use the

definitions.) b) Use a suitable shared library mechanism for linking with the

A suitable mechanism is one that (1) uses at run time a copy of the library

present on the user's computer system, rather than copying library functions

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

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

with the version that the work was made with. c) Accompany the work

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the executable runs, unless that component itself accompanies the executable.

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linux-syscall-support

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 nsSMILKeySpline.cpp  
 var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ]) spline.get(x) =>  
 returns  
 easing value | x must be in [0, 1] range

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Protocol Buffers

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

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pyjson5

Project Homepage: <https://github.com/dpranke/pyjson5>

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pywebsocket3

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

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Quick Color Management System

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re2 - an efficient, principled regular expression library

Project Homepage: <https://github.com/google/re2>

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Recurrent neural network for audio noise reduction

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

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

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Simple Homomorphic Encryption Library with Lattices

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simplejson

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six

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Snappy: A fast compressor/decompressor

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V8 JavaScript Engine

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valgrind

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Vulkan API headers

Project Homepage: <https://github.com/KhronosGroup/Vulkan-Headers>

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VulkanMemoryAllocator

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[This is the first released version of the library GPL. It is numbered 2 it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses intended to guarantee your freedom to share and change free software--to make the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other whose authors decide to use it. You can use it for

your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the to distribute copies of free software (and charge for this service if you that you receive source code or can get it if you want it, that you can change software or use pieces of it in new free programs; and that you know you can do things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These translate to certain responsibilities for you if you distribute copies of the or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You make sure that they, too, receive or can get the source code. If you link a with the library, you must provide complete object files to the recipients so they can relink them with the library, after making changes to the library and it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If library is modified by someone else and passed on, we want its recipients to that what they have is not the original version, so that any problems by others will not reflect on the original authors' reputations.



Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software individually obtain patent licenses, thus in effect transforming the program proprietary software. To prevent this, we have made it clear that any patent be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This the GNU Library General Public License, applies to certain designated. This license is quite different from the ordinary one; be sure to read it in and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a and simply using it. Linking a program with a library, without changing the is in some sense simply using the library, and is analogous to running a program or application program. However, in a textual and legal sense, the executable is a combined work, a

derivative of the original library, and the ordinary General Public License it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, most developers did not use the libraries. We concluded that weaker conditions promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries. This Library General Public License is intended to permit developers of programs to use free libraries, while preserving your freedom as a user of such to change the free libraries that are incorporated in them. (We have not seen to achieve this as regards changes in header files, but we have achieved it as changes in the actual functions of the Library.) The hope is that this will to faster development of free libraries.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work on the library" and a "work that uses the library". The former contains code from the library, while the latter only works together with the library. Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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it may be distributed under the terms of this Library General Public License

called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library"

either the Library or any derivative work under copyright law: that is to say,

work containing the Library or a portion of it, either verbatim or with and/or translated straightforwardly into another language. (Hereinafter, is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the

code for all modules it contains, plus any associated interface definition

plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a

using the Library is not restricted, and output from such a program is covered

if its contents constitute a work based on the Library (independent of the use

the Library in a tool for writing it). Whether that is true depends on what the

does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you and appropriately publish on each copy an appropriate copyright notice

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to the  
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You may charge a fee for the physical act of transferring a copy,  
and you may at your option offer warranty protection in exchange for a  
fee.

2. You may modify your copy or copies of the Library or any portion  
of it, thus forming a work based on the Library, and copy and distribute  
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or work under the terms of Section 1 above, provided that you also meet  
all of

conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices  
stating that

changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to  
all

parties under the terms of this License. d) If a facility in the  
modified

refers to a function or a table of data to be supplied by an  
application

that uses the facility, other than as an argument passed when the  
facility is

then you must make a good faith effort to ensure that, in the event an  
does not supply such function or table, the facility still operates,  
and

whatever part of its purpose remains meaningful. (For example, a  
function in

library to compute square roots has a purpose that is entirely well-  
defined

of the application. Therefore, Subsection 2d requires that any  
function or table used by this function must be optional: if the  
application

not supply it, the square root function must still compute square  
roots.)

These requirements apply to the modified work as a whole. If  
identifiable

of that work are not derived from the Library, and can be reasonably  
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and separate works in themselves, then this License, and its terms, do  
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to those

sections when you distribute them as separate works. But when you  
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same sections as part of a whole which is a work based on the Library, the of the whole must be on the terms of this License, whose permissions for other extend to the entire whole, and thus to each and every part regardless of who it. Thus, it is not the intent of this section to claim rights or contest your to work written entirely by you; rather, the intent is to exercise the right to the distribution of derivative or collective works based on the Library. In mere aggregation of another work not based on the Library with the Library (or a work based on the Library) on a volume of a storage or distribution medium not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you alter all the notices that refer to this License, so that they refer to the GNU General Public License, version 2, instead of to this License. (If a newer than version 2 of the ordinary GNU General Public License has appeared, then can specify that version instead if you wish.) Do not make any other change in notices. Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent and derivative works made from that copy. This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the of Sections 1 and 2 above provided that you accompany it with the complete machine-readable source code, which must be distributed under the terms of 1 and 2 above on a medium customarily used for software interchange. If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source from the same place satisfies the requirement to distribute the source code,

though third parties are not compelled to copy the source along with the object

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

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains of the Library), rather than a "work that uses the library". The executable is covered by this License. Section 6 states terms for distribution of such

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions lines or less in length), then the use of the object file is unrestricted, of whether it is legally a derivative work. (Executables containing this object 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 containing that work also fall under Section 6, whether or not they are linked with the Library itself.

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this

You must supply a copy of this License. If the work during execution displays notices, you must include the copyright notice for the Library among them, as a reference directing the user to the copy of this License. Also, you must one of these things:

a) Accompany the work with the complete corresponding machine-readable source for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable with the Library, with the complete machine-readable "work that uses the Library as object code and/or source code, so that the user can modify the Library then relink to produce a modified executable containing the modified Library. It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the definitions.) b) Accompany the work with a written offer, valid for at least two years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of 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 materials from the same place.

d) Verify that the user has already received a copy of these materials or 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 system. Such a contradiction means you cannot use both them and the Library in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities covered by this License, and distribute such a combined library, provided that separate distribution of the work based on the Library and of the other library is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the uncombined with any other library facilities. This must be distributed under terms of the Sections above.
- b) Give prominent notice with the combined of the fact that part of it is a work based on the Library, and explaining to find the accompanying uncombined form of the same work.

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 of the GNU Library Public License, version 2, hence the version number  
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 that you can do these things.

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restrictions translate to certain responsibilities for you if you distribute of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You make sure that they, too, receive or can get the source code. If you link other with the library, you must provide complete object files to the recipients, so they can relink them with the library after making changes to the library and it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by else and passed on, the recipients should know that what they have is not the version, so that the original author's reputation will not be affected by that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive from a patent holder. Therefore, we insist that any patent license obtained for version of the library must be consistent with the full freedom of use in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General License, applies to certain designated libraries, and is quite different from ordinary General Public License. We use this license for certain libraries in to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined a derivative of the original library. The ordinary General Public License permits such linking only if the entire combination fits its criteria of

The Lesser General Public License permits more lax criteria for linking other with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over

non-free programs. These disadvantages are the reason we use the ordinary

Public License for many libraries. However, the Lesser license provides in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a

standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used

libraries. In this case, there is little to gain by limiting the free library

to free software only, so we use the Lesser General Public License.

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

more people to use the whole GNU operating system, as well as its variant, the operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with

the library has the freedom and the wherewithal to run that program using a version of the library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work

on the library" and a "work that uses the library". The former contains code

from the library, whereas the latter must be combined with the library in order to run.

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either the Library or any derivative work under copyright law: that is to say,

work containing the Library or a portion of it, either verbatim or with and/or translated straightforwardly into another language. (Hereinafter, is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the

code for all modules it contains, plus any associated interface definition

plus the scripts used to control compilation and installation of the library.

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using the Library is not restricted, and output from such a program is covered

if its contents constitute a work based on the Library (independent of the use

the Library in a tool for writing it). Whether that is true depends on what the

does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you and appropriately publish on each copy an appropriate copyright notice and

of warranty; keep intact all the notices that refer to this License and to the

of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such

or work under the terms of Section 1 above, provided that you also meet all of

conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that

changed the files and the date of any change. c) You must cause the whole of

work to be licensed at no charge to all third parties under the terms of this

d) If a facility in the modified Library refers to a function or a table of

to be supplied by an application program that uses the facility, other than

an argument passed when the facility is invoked, then you must make a good

effort to ensure that, in the event an application does not supply such

or table, the facility still operates, and performs whatever part of its

remains meaningful. (For example, a function in a library to compute square

has a purpose that is entirely well-defined independent of the application.

Subsection 2d requires that any application-supplied function or table used

this function must be optional: if the application does not supply it, the

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable

of that work are not derived from the Library, and can be reasonably considered

and separate works in themselves, then this License, and its terms, do not

to those sections when you distribute them as separate works. But when you

the same sections as part of a whole which is a work based on the Library, the

of the whole must be on the terms of this License, whose permissions for other

extend to the entire whole, and thus to each and every part regardless of who

it. Thus, it is not the intent of this section to claim rights or contest your

to work written entirely by you; rather, the intent is to exercise the right to

the distribution of derivative or collective works based on the Library. In

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not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you

alter all the notices that refer to this License, so that they refer to the

GNU General Public License, version 2, instead of to this License. (If a newer

than version 2 of the ordinary GNU General Public License has appeared, then

can specify that version instead if you wish.) Do not make any other change in notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the

of Sections 1 and 2 above provided that you accompany it with the complete

machine-readable source code, which must be distributed under the terms of

1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source

from the same place satisfies the requirement to distribute the source code,

though third parties are not compelled to copy the source along with the object

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked

it, is called a "work that uses the Library". Such a work, in isolation, is not

derivative work of the Library, and therefore falls outside the scope of this

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains

of the Library), rather than a "work that uses the library". The executable is

covered by this License. Section 6 states terms for distribution of such

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (less than 4096 lines or less in length), then the use of the object file is unrestricted, of whether it is legally a derivative work. (Executables containing this object plus portions of the Library will still fall under Section 6.)

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 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 your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this license.

You must supply a copy of this License. If the work during execution displays notices, you must include the copyright notice for the Library among them, as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the



as object code and/or source code, so that the user can modify the Library

then relink to produce a modified executable containing the modified Library.

is understood that the user who changes the contents of definitions files in Library will not necessarily be able to recompile the application to use the definitions.) b) Use a suitable shared library mechanism for linking with the

A suitable mechanism is one that (1) uses at run time a copy of the library present on the user's computer system, rather than copying library functions the executable, and (2) will operate properly with a modified version of the

if the user installs one, as long as the modified version is with the version that the work was made with. c) Accompany the work with a

offer, valid for at least three years, to give the same user the materials in Subsection 6a, above, for a charge no more than the cost of performing

distribution. d) If distribution of the work is made by offering access to

from a designated place, offer equivalent access to copy the above specified

from the same place. e) Verify that the user has already received a copy of

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the

from it. However, as a special exception, the materials to be distributed need

include anything that is normally distributed (in either source or binary form)

the major components (compiler, kernel, and so on) of the operating system on

the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the

system. Such a contradiction means you cannot use both them and the Library

in an executable that you distribute.

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WebM container parser and writer.

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WebP image encoder/decoder

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Weston - reference Wayland compositor

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Windows Template Library (WTL)

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woff2

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Wuufs (Wrangling Untrusted File Formats Safely)

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xdg-user-dirs

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xdg-utils

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```

xxHash

Project Homepage: <https://github.com/Cyan4973/xxHash>

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zlib

Project Homepage: <http://zlib.net/>

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