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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

```
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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## 1.13 gstreamer 0.10.35.1

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## 1.14 libdouble-conversion 3.1.5

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## 1.15 qt 5.14.2

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=====

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```
/*
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```

From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

```
/* Copyright (c) 1996 by Internet Software Consortium.
```

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*
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```

From dso/aix/dso.c:

```
* Based on libdl (dlfcn.c/dlfcn.h) which is
```

```
* Copyright (c) 1992,1993,1995,1996,1997,1988
```

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* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
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```

From strings/apr\_strnatcmp.c, include/apr\_strings.h:

```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
```

```
Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>
```

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/\*

\* SpanDSP - a series of DSP components for telephony

\*

\* g722\_decode.c - The ITU G.722 codec, decode part.

\*

\* Written by Steve Underwood <steveu@coppice.org>

\*

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\* Based in part on a single channel G.722 codec which is:

\*

\* Copyright (c) CMU 1993

\* Computer Science, Speech Group

\* Chengxiang Lu and Alex Hauptmann

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Cambridge, England.

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Written by: Zoltan Herczeg  
Email local part: hzmester  
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- The Wasm C/C++ API headers, located at third\_party/wasm-api/wasm.{h,hh}. This is released under the Apache license. The API's upstream prototype implementation also formed the basis of V8's implementation in src/wasm/c-api.cc.

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\* MODP\_B64 - High performance base64 encoder/decoder

\* Version 1.3 -- 17-Mar-2006

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

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```

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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

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

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"

Paper no. DETC2005-85513 pp. 565-575

ASME 2005 International Design Engineering Technical Conferences

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

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

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```

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dynamic\_annotations

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eigen3

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<http://www.mozilla.org/MPL/2.0/FAQ.html>

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All the LGPL code is either LGPL 2.1-only, or LGPL 2.1-or-later.  
For this reason, the COPYING.LGPL file contains the LGPL 2.1 text.

If you want to guarantee that the Eigen code that you are #including  
is licensed under the MPL2 and possibly more permissive licenses (like  
BSD), #define this preprocessor symbol: EIGEN\_MPL2\_ONLY

For example, with most compilers, you could add this to your project

```
CXXFLAGS: -DEIGEN_MPL2_ONLY
```

This will cause a compilation error to be generated if you #include  
any code that is LGPL licensed.

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Following applies to:

- ./test/mapstaticmethods.cpp
- ./test/schur\_real.cpp
- ./test/prec\_inverse\_4x4.cpp
- ./test/smallvectors.cpp
- ./test/redux.cpp
- ./test/special\_numbers.cpp
- ./test/adjoint.cpp
- ./test/resize.cpp
- ./test/mixingtypes.cpp
- ./test/product\_trmv.cpp
- ./test/sparse\_solvers.cpp
- ./test/cholesky.cpp
- ./test/geo\_quaternion.cpp
- ./test/miscmatrices.cpp
- ./test/stddeque.cpp
- ./test/integer\_types.cpp
- ./test/product\_large.cpp
- ./test/eigensolver\_generic.cpp
- ./test/householder.cpp
- ./test/geo\_orthomethods.cpp
- ./test/array\_for\_matrix.cpp
- ./test/sparseLM.cpp
- ./test/upperbidiagonalization.cpp
- ./test/nomalloc.cpp
- ./test/packetmath.cpp
- ./test/jacobisvd.cpp
- ./test/geo\_transformations.cpp
- ./test/swap.cpp
- ./test/eigensolver\_selfadjoint.cpp
- ./test/inverse.cpp
- ./test/product\_selfadjoint.cpp
- ./test/product\_trsolve.cpp
- ./test/product\_extra.cpp
- ./test/sparse\_solver.h
- ./test/mapstride.cpp

./test/mapped\_matrix.cpp  
./test/geo\_eulerangles.cpp  
./test/eigen2support.cpp  
./test/denseLM.cpp  
./test/stdvector.cpp  
./test/nesting\_ops.cpp  
./test/sparse\_permutations.cpp  
./test/zerosized.cpp  
./test/exceptions.cpp  
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./test/cwiseop.cpp  
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./test/array\_reverse.cpp  
./test/unalignedassert.cpp

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./test/corners.cpp  
./test/dontalign.cpp  
./test/visitor.cpp  
./test/geo\_alignedbox.cpp  
./test/diagonalmatrices.cpp  
./test/product\_small.cpp  
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./Eigen/src/SparseLU/SparseLU\_Memory.h  
./Eigen/src/SparseLU/SparseLU\_heap\_relax\_snode.h  
./Eigen/src/SparseLU/SparseLUImpl.h  
./Eigen/src/SparseLU/SparseLU\_copy\_to\_ucol.h  
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./Eigen/src/SparseLU/SparseLU.h  
./Eigen/src/SparseLU/SparseLU\_column\_bmod.h  
./Eigen/src/SparseLU/SparseLU\_pruneL.h  
./Eigen/src/IterativeLinearSolvers/IncompleteLUT.h  
./Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h  
./Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h  
./Eigen/src/IterativeLinearSolvers/ConjugateGradient.h  
./Eigen/src/IterativeLinearSolvers/BiCGSTAB.h  
./Eigen/src/SparseCholesky/SimplicialCholesky.h  
./Eigen/src/Cholesky/LDLT.h  
./Eigen/src/Cholesky/LLT.h  
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./Eigen/src/PaStiXSupport/PaStiXSupport.h  
./Eigen/src/MetisSupport/MetisSupport.h  
./Eigen/StdVector  
./Eigen/Core

./Eigen/SparseLU  
./Eigen/StdList  
./Eigen/StdDeque  
./Eigen/SparseCholesky  
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./scripts/relicense.py  
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./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/single.cpp  
./blas/level2\_cplx\_impl.h  
./blas/PackedSelfadjointProduct.h  
./blas/Rank2Update.h  
./blas/complex\_single.cpp  
./blas/PackedTriangularSolverVector.h  
./blas/double.cpp  
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`./test/sparselu.cpp`  
`./unsupported/test/mpreal/mpreal.h`  
`./unsupported/Eigen/src/IterativeSolvers/IterationController.h`  
`./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h`  
`./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h`  
`./Eigen/src/OrderingMethods/Amd.h`  
`./Eigen/src/SparseCholesky/SimplicialCholesky_impl.h`

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--- end of FTL.TXT ---

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#### Mesa Component Licenses

| Component        | Location                                       | Primary Author | License          |
|------------------|------------------------------------------------|----------------|------------------|
| Main Mesa code   | src/ mesa/                                     | Brian Paul     | Mesa (MIT)       |
| Device drivers   | src/ mesa/ drivers/ *                          | See drivers    | See drivers      |
| Ext headers      | include/ GL/ glxext.h<br>include/ GL/ glxext.h | SGI            | SGI Free B       |
| GLUT             | src/ glut/                                     | Mark Kilgard   | Mark's copyright |
| GLEW             | src/ glew-1.13.0                               | Nigel Stewart  | Modified BSD     |
| Mesa GLU library | src/ glu/ mesa/                                | Brian Paul     | GNU-LGPL         |
| SGI GLU library  | src/ glu/ sgi/                                 | SGI            | SGI Free B       |
| demo programs    | progs/ demos/                                  | various        | see source files |
| X demos          | progs/ xdemos/                                 | Brian Paul     | see source files |
| SGI demos        | progs/ samples/                                | SGI            | SGI copyright    |
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javascript/jquery\_ui

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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libunwind

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libxcb

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libxml

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Libxml2, an XML C Parser

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mongoose

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openctm

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utf

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xmpmeta

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jsoncpp

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libwebp

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## 12.1 Term

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Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

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(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

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/\*

\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

\*

\* This program uses the PortAudio Portable Audio Library.

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\* \$Id: pa\_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$  
\* Portable Audio I/O Library  
\* Ring Buffer utility.  
\*  
\* Author: Phil Burk, <http://www.softsynth.com>  
\* modified for SMP safety on Mac OS X by Bjorn Roche  
\* modified for SMP safety on Linux by Leland Lucius  
\* also, allowed for const where possible  
\* modified for multiple-byte-sized data elements by Sven Fischer  
\*  
\* Note that this is safe only for a single-thread reader and a  
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PCRE is a library of functions to support regular expressions whose syntax  
and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library  
started out as a copy of PCRE, many of the features of PCRE have been  
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`^tools/utls/qtcreator/`

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac\_dsp\_gpl.asm`
  - `libavcodec/x86/idct\_mmx.c`
  - `libavfilter/x86/vf\_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make\_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/\*`
  - `tests/tiny\_ssim.c`
- the following filters in libavfilter:
  - `vf\_blackframe.c`
  - `vf\_boxblur.c`
  - `vf\_colormatrix.c`
  - `vf\_cover\_rect.c`
  - `vf\_croptdetect.c`
  - `vf\_delogo.c`
  - `vf\_eq.c`
  - `vf\_find\_rect.c`
  - `vf\_fspp.c`
  - `vf\_geq.c`
  - `vf\_histeq.c`
  - `vf\_hqdn3d.c`
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- `vf\_uspp.c`
- `vsrc\_mptestsrc.c`

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#### ## External libraries

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#### ### Compatible libraries

The following libraries are under GPL:

- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That

license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### ### Incompatible libraries

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### 11.1. Licensee's Record-keeping

Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

#### 11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

## 12. TERM AND TERMINATION

### 12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

## 12.2. Termination and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

## 12.3. Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

## 12.4. Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:

- (i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
- (ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

#### 12.5. Extension in case of bankruptcy

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration

tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

#### 14. GENERAL PROVISIONS

##### 14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

##### 14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

##### 14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

##### 14.4. Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

##### 14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall

apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

#### 14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

#### 14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

#### 14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

#### 14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

#### 14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

#### 14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

#### 14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

### APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

### APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

| Modules/Tools | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
|---------------|------|------|-------|-------|------|
| Qt Core       | X,R  | X,R  |       |       |      |
| Qt GUI        | X,R  | X,R  |       |       |      |
| Qt Multimedia | X,R  | X,R  |       |       |      |



|                       |           |
|-----------------------|-----------|
| Qt Multimedia Widgets | X,R   X,R |
| Qt Network            | X,R   X,R |
| Qt QML                | X,R   X,R |
| Qt Quick              | X,R   X,R |
| Qt Quick Controls 2   | X,R   X,R |
| Qt Quick Dialogs      | X,R   X,R |
| Qt Quick Layouts      | X,R   X,R |
| Qt Quick Test         | X,R   X,R |
| Qt SQL                | X,R   X,R |
| Qt Test               | X,R   X,R |
| Qt Widgets            | X,R   X,R |
| Active Qt             | X,R   X,R |
| Qt 3D                 | X,R   X,R |
| Qt Android Extras     | X,R   X,R |
| Qt Bluetooth          | X,R   X,R |
| Qt Canvas 3D          | X,R   X,R |
| Qt Concurrent         | X,R   X,R |
| Qt D-Bus              | X,R   X,R |
| Qt Gamepad            | X,R   X,R |
| Qt Graphical Effects  | X,R   X,R |
| Qt Help               | X,R   X,R |
| Qt Image Formats      | X,R   X,R |
| Qt Location           | X,R   X,R |
| Qt Mac Extras         | X,R   X,R |

|                          |           |
|--------------------------|-----------|
| Qt Network Authorization | X,R   X,R |
| Qt NFC                   | X,R   X,R |
| Qt Platform Headers      | X,R   X,R |
| Qt Positioning           | X,R   X,R |
| Qt Print Support         | X,R   X,R |
| Qt Purchasing            | X,R   X,R |
| Qt for Python            | X,R   X,R |
| Qt Quick Controls        | X,R   X,R |
| Qt Quick Extras          | X,R   X,R |
| Qt Quick Widgets         | X,R   X,R |
| Qt SCXML                 | X,R   X,R |
| Qt Sensors               | X,R   X,R |
| Qt Serial Bus            | X,R   X,R |
| Qt Serial Port           | X,R   X,R |
| Qt Speech                | X,R   X,R |
| Qt SVG                   | X,R   X,R |
| Qt UI Tools              | X,R   X,R |
| Qt WebChannel            | X,R   X,R |
| Qt WebEngine             | X,R   X,R |
| Qt WebSockets            | X,R   X,R |
| Qt WebView               | X,R   X,R |
| Qt Windows Extras        | X,R   X,R |
| Qt X11 Extras            | X,R   X,R |
| Qt XML                   | X,R   X,R |

|                                       |  |     |     |     |  |   |  |
|---------------------------------------|--|-----|-----|-----|--|---|--|
| Qt XML Patterns                       |  | X,R |     | X,R |  |   |  |
| Qt Wayland Compositor                 |  | X,R |     | X,R |  |   |  |
| Qt Charts                             |  | X,R |     | X,R |  |   |  |
| Qt Data Visualization                 |  | X,R |     | X,R |  |   |  |
| Qt Virtual Keyboard                   |  | X,R |     | X,R |  |   |  |
| Boot 2 Qt stack                       |  |     | X,R |     |  |   |  |
| Qt OTA                                |  |     | X,R |     |  |   |  |
| Device Utilities                      |  |     | X,R |     |  |   |  |
| Qt Debugging Bridge (QDB) Daemon      |  |     | X,R |     |  |   |  |
| Qt Quick Ultralite Controls           |  |     |     | X,R |  |   |  |
| Qt Quick Ultralite                    |  |     |     | X,R |  |   |  |
| Qt Creator                            |  | X   |     | X   |  | X |  |
| Qt Designer (Qt Widget Designer)      |  | X   |     | X   |  |   |  |
| Qt Quick Designer (Qt Creator plugin) |  | X   |     | X   |  | X |  |
| Qt Linguist                           |  | X   |     | X   |  | X |  |
| Qt Assistant                          |  | X   |     | X   |  | X |  |
| lupdate                               |  | X   |     | X   |  | X |  |
| lrelease                              |  | X   |     | X   |  | X |  |
| qmake                                 |  | X   |     | X   |  |   |  |
| uic                                   |  | X   |     | X   |  |   |  |
| rcc                                   |  | X   |     | X   |  |   |  |
| qlalr                                 |  | X   |     | X   |  |   |  |
| qdoc                                  |  | X   |     | X   |  |   |  |
| qmlscene                              |  | X   |     | X   |  |   |  |

|                                      |  |   |   |   |     |  |   |
|--------------------------------------|--|---|---|---|-----|--|---|
| qmlviewer                            |  | X | X |   |     |  |   |
| Target toolchains                    |  |   | X | X |     |  |   |
| Qt Debugging Bridge (QDB) Host Tools |  |   |   | X |     |  |   |
| qtconfig-gui                         |  |   | X |   |     |  |   |
| Qt Emulator                          |  |   | X |   |     |  |   |
| qmlinterfacegenerator                |  |   |   | X |     |  |   |
| qmltocpp                             |  |   |   | X |     |  |   |
| qulfontcompiler                      |  |   |   | X |     |  |   |
| Qt53DStudioRuntime2                  |  |   |   |   | X,R |  |   |
| Qt 3D Studio                         |  |   |   |   | X   |  |   |
| Qt Design Studio                     |  |   |   |   |     |  | X |

### APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

|                   | Add-On Product(s) |       |            |          |             |          |            |
|-------------------|-------------------|-------|------------|----------|-------------|----------|------------|
| Modules /         | Qt for            | Qt    | Qt Safe    | Qt       | Qt          | Qt       | Qt         |
| Licensed Software | Automation        | Suite | Automotive | Renderer | Application | Gammaray | Deployment |
|                   |                   |       |            | Manager  | Platform    |          |            |
|                   |                   |       |            | Package  |             |          |            |
| Qt MQTT           | X,R               |       |            |          |             |          |            |
| Qt KNX            | X,R               |       |            |          |             |          |            |

Qt OPC UA | X,R | | | | |

Qt CoAP | X,R | | | | |

Qt Safe | | X,R | X,R | | | |

Renderer | | | | | | |

Qt | | | | | | |

Application | | X,R | | X,R | | |

Manager | | | | | | |

Qt IVI | | X,R | | | | |

Reference UI | | X,R | | | | |

Qt GENIVI | | X,R | | | | |

Extras | | | | | | |

QML Live | | X | | | | |

Qt Creator | | X | | | | |

Deployment | | | | | | |

Qt Creator | | | | | | |

Plugin for | | | | | | |

Qt | | X | | X | | |

Application | | | | | | |

Manager | | | | | | |

Qt | | | | | | |

Automotive | | | | | | |

Suite | | X | | | | |

Deployment | | | | | | |

Server | | | | | | |

Qt Design | | X | | | | |

Studio | | | | | | |

Qt 3D Studio | | X | | | | |

GammaRay | | X | | | | X |

Platform | | | | | | |

adaptations | | | | | | |

for | | | | | | X

specified | | | | | | |

Deployment | | | | | | |

Platforms | | | | | | |

|          |  |  |   |  |  |  |
|----------|--|--|---|--|--|--|
| Qt for   |  |  |   |  |  |  |
| Device   |  |  | X |  |  |  |
| Creation |  |  |   |  |  |  |

All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

#### APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

- (i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;
- (ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and
- (iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

- (a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder, shall expire; provided however that

- (b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

#### APPENDIX 5: NON-COMMERCIAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

- I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

- II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only Designated Users

may use the Licensed Software.

Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution rights to Licensee, but such rights are subject to and conditional upon conclusion of a separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt;

Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12.



Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

```
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//
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// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

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Version 2.0, January 2004

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## TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

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^ expected errors | v input
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// found in the LICENSE file.
/*---
esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/
```

```
void 0;
```

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Bug fixes.

Jef Gearhart jgearhart at tpssys dot com

Bug fix.

Arthur Kantor akantor at bexusa dot com

Mutex enhancements.

Steven Reddie smr at essemmer dot com dot au

Bug fix.

Alexander Terekhov TEREKHOV at de dot ibm dot com

Re-implemented and improved read-write locks;  
(with Louis Thomas) re-implemented and improved  
condition variables;  
enhancements to semaphores;  
enhancements to mutexes;  
new mutex implementation in 'futex' style;  
suggested a robust implementation of pthread\_once  
similar to that implemented by V.Kliathcko;  
system clock change handling re CV timeouts;  
bug fixes.

Thomas Pfaff tpfaff at gmx dot net

Changes to make C version usable with C++ applications;  
re-implemented mutex routines to avoid Win32 mutexes  
and TryEnterCriticalSection;  
procedure to fix Mingw32 thread-safety issues.

Franco Bez franco dot bez at gmx dot de

procedure to fix Mingw32 thread-safety issues.

Louis Thomas lthomas at arbitrade dot com

(with Alexander Terekhov) re-implemented and improved  
condition variables.

David Korn dgk at research dot att dot com

Ported to UWIN.

Phil Frisbie, Jr. phil at hawksoft dot com

Bug fix.

Ralf Brese Ralf dot Brese at pdb4 dot siemens dot de

Bug fix.

prionx at junodotcom prionx at junodotcom

Bug fixes.

Max Woodbury mtew at cds dot duke dot edu

POSIX versioning conditionals;  
reduced namespace pollution;  
idea to separate routines to reduce statically  
linked image sizes.

Rob Fanner rfanner at stonethree dot com

Bug fix.

Michael Johnson michaelj at maine dot rr dot com

Bug fix.

Nicolas Barry boozai at yahoo dot com

Bug fixes.

Piet van Bruggen pietvb at newbridges dot nl

Bug fix.

Makoto Kato raven at oldskool dot jp

AMD64 port.

Panagiotis E. Hadjidoukas peh at hpclab dot ceid dot upatras dot gr

Contributed the QueueUserAPCEx package which  
makes preemptive async cancelation possible.

Will Bryant will dot bryant at ecosm dot com

Borland compiler patch and makefile.

Anuj Goyal anuj dot goyal at gmail dot com

Port to Digital Mars compiler.

Gottlob Frege gottlobfrege at gmail dot com

re-implemented pthread\_once (version 2)  
(pthread\_once cancellation added by rpj).

Vladimir Kliatchko vladimir at kliatchko dot com

reimplemented pthread\_once with the same form  
as described by A.Terekhov (later version 2);  
implementation of MCS (Mellor-Crummey/Scott) locks.

## A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property.



Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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Author : Angus Johnson

Version : 6.1.3a

Date : 22 January 2014

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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

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

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)  
<http://books.google.com/books?q=vatti+clipping+agoston>

See also:

"Polygon Offsetting by Computing Winding Numbers"  
Paper no. DETC2005-85513 pp. 565-575  
ASME 2005 International Design Engineering Technical Conferences  
and Computers and Information in Engineering Conference (IDETC/CIE2005)  
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C++ port by Konstantin Kfer <[mail@kkaefer.com](mailto:mail@kkaefer.com)>, 2014.

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

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\* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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- \* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- \* Added generation of field number constants.

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- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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- \* HPUX support.

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- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

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- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

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Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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\*

\* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

\* Date: Fri, Jun 24, 2011 at 3:20 AM

\* Subject: Re: sqrt routine

\* To: Kevin Ma <kma@google.com>

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to  
\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

\* ----- Original Message -----

\* From: "Kevin Ma" <kma@google.com>

\* To: <Wilco.Dijkstra@ntlworld.com>

\* Sent: Thursday, June 23, 2011 11:44 PM

\* Subject: Fwd: sqrt routine

\* Hi Wilco,

\* I saw your sqrt routine from several web sites, including

\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.

\* Just wonder if there's any copyright information with your Successive

\* approximation routines, or if I can freely use it for any purpose.

\* Thanks.

\* Kevin

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and U4422C) 08/2014

- map image extracted from Topographic map raster 1:50 000 (U442) 08/2014

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#####

BezierEasing - use bezier curve for transition easing function  
by Gatan Renaudeau 2014 - 2015 MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:

```
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
```

spline.get(x) => returns the easing value | x must be in [0, 1] range

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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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```
## -*-makefile-*-
```

```
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```
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```

```
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```

```
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```

```
## Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

```

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*/1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@

```

## Versioned libraries rules

```
%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@
```

## Bind internal references

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
Copyright 2019 Inria
Author: Nicolas Roussel (nicolas.roussel@inria.fr)
```

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C++ Big Integer Library  
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <[matt@mattmccutchen.net](mailto:matt@mattmccutchen.net)>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers,

respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a);

(print 340282366920938463463374607431768211456)
```

The code in `sample.cc` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc`, consult the consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

#### Compiling programs that use the library

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The library consists of a folder full of C++ header files (`.hh`) and source files (`.cc`). Your own programs should `#include` the necessary header files and link with the source files. A makefile that builds the sample program (sample.cc) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

#### Resources

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The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

#### Bugs and enhancements

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The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling

trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

## Legal

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I, Matt McCutchen, the sole author of the original Big Integer Library, waive my copyright to it, placing it in the public domain. The library comes with absolutely no warranty.

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#

# Don't put empty lines into this file!

#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

```
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
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TeX Gyre DJV Math

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\$Id\$

// sigslot.h: Signal/Slot classes

//

// Written by Sarah Thompson (sarah@telergy.com) 2002.

//

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```
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived 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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"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 source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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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.

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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.

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Appendix: How to Apply These Terms to Your New Libraries



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Linus Torvalds

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Version 2, June 1991

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

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Appendix: How to Apply These Terms to Your New Programs

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```
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- Stanislav Karchebny (options parser)

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