



Open Source Used In Cisco Jabber Guest SDK for iOS 10.6.8

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Text Part Number: 78EE117C99-105605482

This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please contact us at external-opensource-requests@cisco.com.

In your requests please include the following reference number 78EE117C99-105605482

Contents

1.1 boost 1.51.0
1.1.1 Notifications
1.1.2 Available under license
1.2 boost 1.46.1
1.2.1 Notifications
1.2.2 Available under license
1.3 cjson 2009
1.3.1 Available under license
1.4 CrashReporter v1.1
1.4.1 Available under license
1.5 curl 7.35
1.5.1 Available under license
1.6 curl/apache-portions 7.35
1.6.1 Available under license
1.7 e2fsprogs-lib-uuid 1.41.8
1.7.1 Available under license
1.8 Expat 1.95.2
1.8.1 Available under license
1.9 FPPopover 1.4.5
1.9.1 Available under license
1.10 glib 2.27.1
1.10.1 Available under license
1.11 gstreamer 0.10.35.1
1.11.1 Available under license
1.12 gstreamer-plugins-bad 0.10.22.1

1.12.1 Available under license

1.13 gstreamer-plugins-base 0.10.35.1

1.13.1 Available under license

1.14 gstreamer-plugins-good 0.10.30.1

1.14.1 Available under license

1.15 icu4c 49.1.2

1.15.1 Available under license

1.16 jansson 2.3.1

1.16.1 Available under license

1.17 Idns 1.6.13

1.17.1 Available under license

1.18 libxml2 2.9.2

1.18.1 Available under license

1.19 libyuv r1175 :ICS

1.19.1 Available under license

1.20 MTPopupWindow 06 Jan 2013

1.20.1 Available under license

1.21 NSData+Base64 n/a

1.21.1 Available under license

1.22 openIdap 2.4.29

1.22.1 Available under license

1.23 openssl 1.0.1m :[19 Mar 2015]

1.23.1 Notifications

1.23.2 Available under license

1.24 openssl 1.0.1j :[15 Oct 2014]

1.24.1 Notifications

1.24.2 Available under license

1.25 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

1.25.1 Notifications

1.25.2 Available under license

1.26 openssl/crypto 1.0.1m :1

1.26.1 Available under license

1.27 unbound 1.4.18

1.27.1 Available under license

1.28 zlib 1.2.3

1.28.1 Available under license

1.1 boost 1.51.0

1.1.1 Notifications:

This product includes software developed by the Apache Software Foundation (http://www.apache.org/).

1.1.2 Available under license:

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando Cacciola (fernando_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganßauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)

Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Hervé Brönnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Järvi (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)

John Maddock (john - at - johnmaddock.co.uk)

John R Bandela (jbandela-at-ufl.edu)

Jonathan Turkanis (turkanis -at- coderage dot com)

Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)

Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)

Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)

Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)

Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)

Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)

Mac Murrett (mmurrett -at- mac.com)

Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)

Michael Glassford (glassfordm - at - hotmail.com)

Michael Stevens (Michael Stevens - at - epost.de)

Multi Media Ltd. (pdimov@mmltd.net)

Nicolai M Josuttis (solutions -at-josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)

Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)

Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)

Pavol Droba (droba -at- topmail.sk)

Peter Dimov (pdimov@mmltd.net)

R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Rational Discovery LLC (Greg Landrum Landrum -at- Rational Discovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)

Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)

Robert Ramey (ramey@www.rrsd.com)

Roland Richter (roland -at-flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)

Roland Schwarz (roland.schwarz -at- chello.at)

Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)

Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)

Stefan Seefeld (seefeld -at- sympatico.ca)

Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)

Steve Cleary (Variant of Stephen Cleary)

Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)

The Trustees of Indiana University ()

Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)

Thorsten Jørgen Ottosen (nesotto - at - cs.auc.dk)

Thorsten Ottosen (nesotto - at - cs.auc.dk)

Toon Knapen (toon dot knapen - at - fft.be)

Trustees of Indiana University ()

University of Notre Dame ()

Vladimir Prus (ghost@cs.msu.su)

William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)

Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)

Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

Software License, Version 1.0

Copyright 2002-2003, Trustees of Indiana University.

Copyright 2000-2001, University of Notre Dame.

All rights reserved.

Indiana University has the exclusive rights to license this product under the following license.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * All redistributions of source code must retain the above copyright notice, the list of authors in the original source code, this list of conditions and the disclaimer listed in this license;
- * All redistributions in binary form must reproduce the above copyright notice, this list of conditions and the disclaimer listed in this license in the documentation and/or other materials provided with the distribution;
- * Any documentation included with all redistributions must include the following acknowledgement:

"This product includes software developed at the University of Notre Dame and the Pervasive Technology Labs at Indiana University. For technical information contact Andrew Lumsdaine at the Pervasive Technology Labs at Indiana University. For administrative and license questions contact the Advanced Research and Technology Institute at 351 West 10th Street. Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902."

Alternatively, this acknowledgement may appear in the software itself, and wherever such third-party acknowledgments normally appear.

- * The name Indiana University, the University of Notre Dame or "Caramel" shall not be used to endorse or promote products derived from this software without prior written permission from Indiana University. For written permission, please contact Indiana University Advanced Research & Technology Institute.
- * Products derived from this software may not be called "Caramel", nor may Indiana University, the University of Notre Dame or "Caramel" appear in their name, without prior written permission of Indiana University Advanced Research & Technology Institute.

Indiana University provides no reassurances that the source code provided does not infringe the patent or any other intellectual property rights of any other entity. Indiana University disclaims any liability to any recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.

LICENSEE UNDERSTANDS THAT SOFTWARE IS PROVIDED "AS IS" FOR WHICH NO WARRANTIES AS TO CAPABILITIES OR ACCURACY ARE MADE. INDIANA UNIVERSITY GIVES NO WARRANTIES AND MAKES NO REPRESENTATION THAT SOFTWARE IS FREE OF INFRINGEMENT OF THIRD PARTY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHTS. INDIANA UNIVERSITY MAKES NO WARRANTIES THAT SOFTWARE IS FREE FROM "BUGS", "VIRUSES", "TROJAN HORSES", "TRAP DOORS", "WORMS", OR OTHER HARMFUL CODE. LICENSEE ASSUMES THE ENTIRE RISK AS TO THE PERFORMANCE OF SOFTWARE AND/OR ASSOCIATED MATERIALS, AND TO THE

1.2 boost 1.46.1

1.2.1 Notifications:

This product includes software developed at the University of Notre Dame and the Pervasive Technology Labs at Indiana University. For technical information contact Andrew Lumsdaine at the Pervasive Technology Labs at Indiana University. For administrative and license questions contact the Advanced Research and Technology Institute at 351 West 10th Street. Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902.

1.2.2 Available under license:

Software License, Version 1.0

Copyright 2002-2003, Trustees of Indiana University. Copyright 2000-2001, University of Notre Dame. All rights reserved.

Indiana University has the exclusive rights to license this product under the following license.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * All redistributions of source code must retain the above copyright notice, the list of authors in the original source code, this list of conditions and the disclaimer listed in this license;
- * All redistributions in binary form must reproduce the above copyright notice, this list of conditions and the disclaimer listed in this license in the documentation and/or other materials provided with the distribution;
- * Any documentation included with all redistributions must include the following acknowledgement:

"This product includes software developed at the University of Notre Dame and the Pervasive Technology Labs at Indiana University. For technical information contact Andrew Lumsdaine at the Pervasive Technology Labs at Indiana University. For administrative and license questions contact the Advanced Research and Technology Institute at 351 West 10th Street. Indianapolis, Indiana 46202, phone 317-278-4100, fax 317-274-5902."

Alternatively, this acknowledgement may appear in the software itself, and wherever such third-party acknowledgments normally appear.

* The name Indiana University, the University of Notre Dame or "Caramel" shall not be used to endorse or promote products derived from this software without prior written permission from Indiana University. For written

permission, please contact Indiana University Advanced Research & Technology Institute.

* Products derived from this software may not be called "Caramel", nor may Indiana University, the University of Notre Dame or "Caramel" appear in their name, without prior written permission of Indiana University Advanced Research & Technology Institute.

Indiana University provides no reassurances that the source code provided does not infringe the patent or any other intellectual property rights of any other entity. Indiana University disclaims any liability to any recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.

LICENSEE UNDERSTANDS THAT SOFTWARE IS PROVIDED "AS IS" FOR WHICH NO WARRANTIES AS TO CAPABILITIES OR ACCURACY ARE MADE. INDIANA UNIVERSITY GIVES NO WARRANTIES AND MAKES NO REPRESENTATION THAT SOFTWARE IS FREE OF INFRINGEMENT OF THIRD PARTY PATENT, COPYRIGHT, OR OTHER PROPRIETARY RIGHTS. INDIANA UNIVERSITY MAKES NO WARRANTIES THAT SOFTWARE IS FREE FROM "BUGS", "VIRUSES", "TROJAN HORSES", "TRAP DOORS", "WORMS", OR OTHER HARMFUL CODE. LICENSEE ASSUMES THE ENTIRE RISK AS TO THE PERFORMANCE OF SOFTWARE AND/OR ASSOCIATED MATERIALS, AND TO THE PERFORMANCE AND VALIDITY OF INFORMATION GENERATED USING SOFTWARE.

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following people hereby grant permission to replace all existing licenses on their contributions to Boost with the Boost Software License, Version 1.0. (boostinspect:nolicense boostinspect:nocopyright)

Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()

Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)

Beman Dawes (bdawes@acm.org)

Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)

Brian Osman (osman -at- vvisions.com) (See CVS log)

Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)

Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)

Daryle Walker (darylew - at - hotmail.com)

Dave Abrahams (dave@boost-consulting.com)

Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)

David Abrahams (dave@boost-consulting.com)

Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)

Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)

Dr John Maddock (john - at - johnmaddock.co.uk)

Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)

Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)

Eric Friedman (ebf@users.sourceforge.net)

Eric Niebler (eric@boost-consulting.com)

Fernando Cacciola (fernando_cacciola@ciudad.com.ar)

Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)

Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)

Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)

Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)

Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)

Gottfried Ganßauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)

Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Hervé Brönnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Järvi (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)

John Maddock (john - at - johnmaddock.co.uk)

John R Bandela (jbandela-at-ufl.edu)

Jonathan Turkanis (turkanis -at- coderage dot com)

Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)

Kevlin Henney (kevlin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)

Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)

Lars Gullik Bjønnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)

Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)

Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)

Mac Murrett (mmurrett -at- mac.com)

Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)

Michael Glassford (glassfordm - at - hotmail.com)

Michael Stevens (Michael Stevens - at - epost.de)

Multi Media Ltd. (pdimov@mmltd.net)

Nicolai M Josuttis (solutions -at-josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)

Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)

Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)

Pavol Droba (droba -at- topmail.sk)

Peter Dimov (pdimov@mmltd.net)

R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)

Rational Discovery LLC (Greg Landrum Landrum -at- Rational Discovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)

Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)

Robert Ramey (ramey@www.rrsd.com)

Roland Richter (roland -at-flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)

Roland Schwarz (roland.schwarz -at- chello.at)

Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)

Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)

Stefan Seefeld (seefeld -at- sympatico.ca)

Stephen Cleary (scleary -at-jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)

Steve Cleary (Variant of Stephen Cleary)

Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)

The Trustees of Indiana University ()

Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)

Thorsten Jørgen Ottosen (nesotto - at - cs.auc.dk)

Thorsten Ottosen (nesotto - at - cs.auc.dk)

Toon Knapen (toon dot knapen - at - fft.be)

Trustees of Indiana University ()

University of Notre Dame ()

Vladimir Prus (ghost@cs.msu.su)

William E. Kempf () (email to Beman Dawes, 9/14/2006 4:18 PM)

Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200) Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

Copyright:

/+\

+\ Copyright 1993-2002 Christopher Seiwald and Perforce Software, Inc.

\+/

This is Release 2.4 of Jam/MR, a make-like program.

License is hereby granted to use this software and distribute it freely, as long as this copyright notice is retained and modifications are clearly marked.

ALL WARRANTIES ARE HEREBY DISCLAIMED.

Some portions are also:

Copyright 2001-2006 David Abrahams.

Copyright 2002-2006 Rene Rivera.

Copyright 2003-2006 Vladimir Prus.

Distributed under the Boost Software License, Version 1.0.

(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)

1.3 cjson 2009

1.3.1 Available under license:

/*

Copyright (c) 2009 Dave Gamble

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*/

1.4 CrashReporter v1.1

1.4.1 Available under license:

/*

* Author: Landon Fuller < landonf@plausiblelabs.com>

*

- * Copyright (c) 2008-2009 Plausible Labs Cooperative, Inc.
- * All rights reserved.

*

- * Permission is hereby granted, free of charge, to any person
- * obtaining a copy of this software and associated documentation
- * files (the "Software"), to deal in the Software without
- * restriction, including without limitation the rights to use,
- * copy, modify, merge, publish, distribute, sublicense, and/or sell
- * copies of the Software, and to permit persons to whom the
- * Software is furnished to do so, subject to the following
- * conditions:

*

- * The above copyright notice and this permission notice shall be
- * included in all copies or substantial portions of the Software.

*

- * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND.
- * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
- * OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
- st NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
- * HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
- * WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
- * FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
- * OTHER DEALINGS IN THE SOFTWARE.

*/

1.5 curl 7.35

1.5.1 Available under license:

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2014, Daniel Stenberg, <daniel@haxx.se>.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

*

- * This example source code introduces a c library buffered I/O interface to
- * URL reads it supports fopen(), fread(), fgets(), feof(), fclose(),
- * rewind(). Supported functions have identical prototypes to their normal c
- * lib namesakes and are preceaded by url_ .

*

- * Using this code you can replace your program's fopen() with url_fopen()
- * and fread() with url_fread() and it become possible to read remote streams
- * instead of (only) local files. Local files (ie those that can be directly
- * fopened) will drop back to using the underlying clib implementations

*

- * See the main() function at the bottom that shows an app that retrives from a
- * specified url using fgets() and fread() and saves as two output files.

*

* Copyright (c) 2003 Simtec Electronics

*

- * Re-implemented by Vincent Sanders <vince@kyllikki.org> with extensive
- * reference to original curl example code

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:

```
* 1. Redistributions of source code must retain the above copyright
```

- * notice, this list of conditions and the following disclaimer.
- * 2. Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * 3. The name of the author may not be used to endorse or promote products
- * derived from this software without specific prior written permission.

*

- * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
- * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
- * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
- * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
- * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
- * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
- * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
- * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
- * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
- * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*

* This example requires libcurl 7.9.7 or later.

*/

- # This file is free software; you can redistribute it and/or modify it
- # under the terms of the GNU General Public License as published by
- # the Free Software Foundation; either version 3 of the License, or
- # (at your option) any later version.

#

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

#

- # You should have received a copy of the GNU General Public License
- # along with this program; if not, see http://www.gnu.org/licenses/.

#

- # As a special exception to the GNU General Public License, if you
- # distribute this file as part of a program that contains a
- # configuration script generated by Autoconf, you may include it under
- # the same distribution terms that you use for the rest of that
- # program. This Exception is an additional permission under section 7
- # of the GNU General Public License, version 3 ("GPLv3").

#

Originally written by Per Bothner.

#

- # You can get the latest version of this script from:
- # http://git.savannah.gnu.org/gitweb/?p=config.git;a=blob_plain;f=config.guess;hb=HEAD
- # Copyright (C) 1999-2013 Free Software Foundation, Inc.

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

- # This program is distributed in the hope that it will be useful,
- # but WITHOUT ANY WARRANTY; without even the implied warranty of
- # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
- # GNU General Public License for more details.
- # You should have received a copy of the GNU General Public License
- # As a special exception to the GNU General Public License, if you
- # distribute this file as part of a program that contains a
- # configuration script generated by Autoconf, you may include it under
- # the same distribution terms that you use for the rest of that program.
- # Originally written by Alexandre Oliva <oliva@dcc.unicamp.br>.

/*

* Copyright (c) 2003 The OpenEvidence Project. All rights reserved.

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:

*

- * 1. Redistributions of source code must retain the above copyright
- * notice, this list of conditions, the following disclaimer,
- * and the original OpenSSL and SSLeay Licences below.

*

- * 2. Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions, the following disclaimer
- * and the original OpenSSL and SSLeay Licences below in
- * the documentation and/or other materials provided with the
- * distribution.

*

- * 3. All advertising materials mentioning features or use of this
- * software must display the following acknowledgments:
- * "This product includes software developed by the Openevidence Project
- * for use in the OpenEvidence Toolkit. (http://www.openevidence.org/)"
- * This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit (http://www.openssl.org/)"
- * This product includes cryptographic software written by Eric Young
- * (eay@cryptsoft.com). This product includes software written by Tim
- * Hudson (tjh@cryptsoft.com)."

*

```
* 4. The names "OpenEvidence Toolkit" and "OpenEvidence Project" must not be
```

- * used to endorse or promote products derived from this software without
- * prior written permission. For written permission, please contact
- * openevidence-core@openevidence.org.

*

- * 5. Products derived from this software may not be called "OpenEvidence"
- * nor may "OpenEvidence" appear in their names without prior written
- * permission of the OpenEvidence Project.

*

- * 6. Redistributions of any form whatsoever must retain the following
- * acknowledgments:
- * "This product includes software developed by the OpenEvidence Project
- * for use in the OpenEvidence Toolkit (http://www.openevidence.org/)
- * This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit (http://www.openssl.org/)"
- * This product includes cryptographic software written by Eric Young
- * (eay@cryptsoft.com). This product includes software written by Tim
- * Hudson (tjh@cryptsoft.com)."

*

- * THIS SOFTWARE IS PROVIDED BY THE OpenEvidence PROJECT "AS IS" AND ANY
- * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
- * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenEvidence PROJECT OR
- * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
- * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
- * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
- * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
- * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
- * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
- * OF THE POSSIBILITY OF SUCH DAMAGE.

* ______

*

- * This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit (http://www.openssl.org/)
- * This product includes cryptographic software written by Eric Young
- * (eay@cryptsoft.com). This product includes software written by Tim
- * Hudson (tjh@cryptsoft.com).

*

*/

- * Copyright (c) 2011, Jim Hollinger
- * All rights reserved.

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met
- * * Redistributions of source code must retain the above copyright

```
* notice, this list of conditions and the following disclaimer.
```

- * * Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * * Neither the name of Jim Hollinger nor the names of its contributors
- * may be used to endorse or promote products derived from this
- * software without specific prior written permission.

*

- * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
- * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
- * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
- * A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
- * OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
- * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
- * LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
- * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
- * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
- * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
- * OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

\$! Copyright 2011, John Malmberg

\$1

- \$! Permission to use, copy, modify, and/or distribute this software for any
- \$! purpose with or without fee is hereby granted, provided that the above
- \$! copyright notice and this permission notice appear in all copies.

\$!

- \$! THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
- \$! WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
- \$! MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
- \$! ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
- \$! WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
- \$! ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
- \$! OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

\$!

\$! 18-Aug-2011 J. Malmberg

Copyright 2012 Google Inc. All Rights Reserved.

#

- # Licensed under the Apache License, Version 2.0 (the "License");
- # you may not use this file except in compliance with the License.
- # You may obtain a copy of the License at

#

http://www.apache.org/licenses/LICENSE-2.0

#

- # Unless required by applicable law or agreed to in writing, software
- # distributed under the License is distributed on an "AS IS" BASIS,

```
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

# See the License for the specific language governing permissions and

# limitations under the License.

#

# Modified by Linus Nielsen Feltzing for inclusion in the libcurl test

# framework

#
```

1.6 curl/apache-portions 7.35

1.6.1 Available under license:

```
# Copyright 2012 Google Inc. All Rights Reserved.

# Licensed under the Apache License, Version 2.0 (the "License");

# you may not use this file except in compliance with the License.

# You may obtain a copy of the License at

# http://www.apache.org/licenses/LICENSE-2.0

# Unless required by applicable law or agreed to in writing, software

# distributed under the License is distributed on an "AS IS" BASIS,

# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

# See the License for the specific language governing permissions and

# limitations under the License.

# Modified by Linus Nielsen Feltzing for inclusion in the libcurl test

# framework

# Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/
```

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.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

- 2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
- 3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
- 4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works: and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

- 5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
- 6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
- 7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
- 8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
- 9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or

rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.7 e2fsprogs-lib-uuid 1.41.8

1.7.1 Available under license:

Copyright (C) 1996, 1997, 1998 Theodore Ts'o.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. The name of the author may not be used to endorse or promote products derived from this software without specific prior

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.8 Expat 1.95.2

1.8.1 Available under license:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper

Copyright (c) 2001, 2002, 2003 Expat maintainers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.9 FPPopover 1.4.5

1.9.1 Available under license:

- * Copyright (c) 2012, Fifty Pixels Ltd
- * All rights reserved.

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions are met:
- * * Redistributions of source code must retain the above copyright
- * notice, this list of conditions and the following disclaimer.
- * * Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * Neither the name of Fifty Pixels Limited nor the names of its contributors
- * may be used to endorse or promote products derived from this software
- * without specific prior written permission.

*

- * THIS SOFTWARE IS PROVIDED BY FIFTY PIXELS LIMITED "AS IS" AND ANY
- * EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
- * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
- * DISCLAIMED. IN NO EVENT SHALL FIFTY PIXELS LIMITED BE LIABLE FOR ANY
- * DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
- * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
- * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
- * ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
- * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
- * SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.10 glib 2.27.1

1.10.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because 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 are intended to guarantee your freedom to share and change free software—to make sure 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 libraries 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies 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 must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling 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 copy, 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 the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced 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 will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must 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 license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary

one; be sure to read it in full, 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 program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might 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 themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead 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 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.

GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also 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 some 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" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library 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 conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence 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 modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you 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 third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does 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 must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these 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 copies 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 terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 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 code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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 copyright notices, you must include the copyright notice for the Library among them, as well 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 Library", as object code and/or source code, so that the user can modify the Library and 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 modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 11. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a

license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

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

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

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

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

That's all there is to it!

This package was debianized by Ben Gertzfield <che@debian.org>
on Tue, 17 Nov 1998 00:16:10 -0800

It was downloaded from the CVS archives at cvs.gimp.org.

It may be redistributed under the terms of the GNU LGPL, Version 2 or later, found on Debian systems in the file /usr/doc/copyright/LGPL. This work may be reproduced and distributed in whole or in part, in any medium, physical or electronic, so as long as this copyright notice remains intact and unchanged on all copies. Commercial redistribution is permitted and encouraged, but you may not redistribute, in whole or in part, under terms more restrictive than those under which you received it. If you redistribute a modified or translated version of this work, you must also make the source code to the modified or translated version available in electronic form

without charge. However, mere aggregation as part of a larger work shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain, and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Please see the file LICENCE in the PCRE distribution for licensing details.

End

PCRE LICENCE

1.11 gstreamer 0.10.35.1

1.11.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because 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 are intended to guarantee your freedom to share and change free software--to make sure 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 libraries 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies 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 must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling 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 copy, 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 the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced 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 will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must 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 license, the GNU Library General Public License, applies to certain

designated libraries. This license is quite different from the ordinary one; be sure to read it in full, 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 program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might 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 themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead 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 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.

GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also 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 some 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" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library 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 conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence 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 modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - b) You must cause the files modified to carry prominent notices stating that you 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 third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does 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 must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these 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 copies 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 terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 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 code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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 copyright notices, you must include the copyright notice for the Library among them, as well 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 Library", as object code and/or source code, so that the user can modify the Library and 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 modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

```
That's all there is to it!
<sect1 id="chapter-legal">
<title id="title-legal">GStreamer Legal Issues</title>
<para>
```

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <uli>ulink url="http://www.fsf.org/"> FSF lawyers</ulink>, so we view them as the

final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by

<ulink url="http://www.fluendo.com/">Fluendo</ulink>

in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

```
<qandaset defaultlabel="qanda">
```

```
<qandaentry>
   <question id="legal-distribute-three">
    <para>
Can someone distribute the combination of
<itemizedlist>
listitem><para>GStreamer, the LGPL library</para></listitem>
listitem><para>MyPlayer, a GPL playback application/para></listitem>
listitem><para>The binary-only Sorenson decoder</para></listitem>
</itemizedlist>
together in one distribution/operating system? If not, what
needs to be changed to make this possible?
    </para>
   </question>
   <answer>
    <para>
This would be a problem, because the GStreamer and MyPlayer licenses would
forbid it. In order to link GStreamer to MyPlayer, you need to use section
3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer
forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL
license forbids this.
    </para>
    <para>
If the authors of MyPlayer want to permit this, we have an
exception for them: the controlled interface exception from the FAQ.
The idea of this is that you can't get around the GPL just by including
a LGPL bit in the middle.
    </para>
    <para>
Note: MyPlayer is a completely fictituous application at the time of writing.
    </para>
   </answer>
  </gandaentry>
  <qandaentry>
   <question id="legal-binary-plugin">
Suppose Apple wants to write a binary-only proprietary
plugin for GStreamer to decode Sorenson video, which will be shipped
stand-alone, not part of a package like in the question above.
Can Apple distribute this binary-only plugin?
    </para>
   </question>
```

```
<answer>
    <para>
Yes, modulo certain reverse engineering requirements in section 6 of
the LGPL.
    </para>
   </answer>
  </gandaentry>
  <qandaentry>
   <question id="legal-gpl-program">
    <para>
If a program released under the GPL uses a library that
is LGPL, and this library can dlopen plug-ins at runtime, what are the
requirements for the license of the plug-in?
    </para>
   </question>
   <answer>
    <para>
You may not distribute the plug-in with the GPL application.
Distributing the plug-in alone, with the knowledge that it will be used
primarily by GPL software is a bit of an edge case. We will not advise you
that it would be safe to do so, but we also will not advise you that it
would be absolutely forbidden.
    </para>
   </answer>
  </qandaentry>
  <qandaentry>
   <question id="legal-safe-countries">
    <para>
Can someone in a country that does not have software patents distribute
code covered by US patents under the GPL to people in, for example, Norway?
If he/she visits the US, can he/she be arrested?
    </para>
   </question>
   <answer>
    <para>
Yes, he can.
No, there are no criminal penalties for patent infringement in the US.
    </para>
   </answer>
  </qandaentry>
  <qandaentry>
   <question id="legal-unsafe-countries">
    <para>
```

Can someone from the US distribute software covered by

US patents under the GPL to people in Norway? To people in the US?

```
</para>
</question>
<answer>
<para>
```

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

```
</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-library-patents">

<p
```

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

```
</para>
</question>
<answer>
<para>
```

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

```
</para>
<para>
```

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.

```
</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-court-judgment">
<para>
```

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents?

```
</para>
</question>
<answer>
 <para>
 </para>
</answer>
```

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

```
</qandaentry>
<qandaentry>
<question id="legal-gpl-and-binary">
  <para>
```

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library.

Does this affect the licensing issues involved in regards to GPL/LGPL?

```
</para>
   </question>
   <answer>
    <para>
No.
    </para>
   </answer>
 </qandaentry>
  <qandaentry>
   <question id="legal-gpl-patent-distribution">
```

Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3?

```
</para>
</question>
<answer>
 <para>
```

The only GPL-compatible patent licenses are those which are open to all parties posessing copies of GPL software which practices the teachings of the patent.

```
</para>
```

If you take a license which doesn't allow others to distribute

```
original or modified versions of libmad practicing the same patent
claims as the version you distribute, then you may not distribute at
all.
    </para>
   </answer>
 </qandaentry>
</qandaset>
</sect1>
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen <omega@cse.ogi.edu>
             2000 Wim Taymans <wtay@chello.be>
* gstpadtemplate.c: Templates for pad creation
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

* Library General Public License for more details.

* You should have received a copy of the GNU Library General Public

* License along with this library; if not, write to the

* Free Software Foundation, Inc., 59 Temple Place - Suite 330,

* Boston, MA 02111-1307, USA.

*/

```
* SECTION: gstpadtemplate
* @short_description: Describe the media type of a pad.
* @see_also: #GstPad, #GstElementFactory
* Padtemplates describe the possible media types a pad or an elementfactory can
* handle. This allows for both inspection of handled types before loading the
* element plugin as well as identifying pads on elements that are not yet
* created (request or sometimes pads).
* Pad and PadTemplates have #GstCaps attached to it to describe the media type
* they are capable of dealing with. gst_pad_template_get_caps() or
* GST PAD TEMPLATE CAPS() are used to get the caps of a padtemplate. It's not
* possible to modify the caps of a padtemplate after creation.
* PadTemplates have a #GstPadPresence property which identifies the lifetime
* of the pad and that can be retrieved with GST_PAD_TEMPLATE_PRESENCE(). Also
* the direction of the pad can be retrieved from the #GstPadTemplate with
* GST PAD TEMPLATE DIRECTION().
* The GST PAD TEMPLATE NAME TEMPLATE () is important for GST PAD REQUEST pads
* because it has to be used as the name in the gst_element_get_request_pad()
* call to instantiate a pad from this template.
* Padtemplates can be created with gst_pad_template_new() or with
* gst static pad template get (), which creates a #GstPadTemplate from a
* #GstStaticPadTemplate that can be filled with the
* convenient GST_STATIC_PAD_TEMPLATE() macro.
* A padtemplate can be used to create a pad (see gst_pad_new_from_template()
* or gst_pad_new_from_static_template ()) or to add to an element class
* (see gst element class add pad template ()).
* The following code example shows the code to create a pad from a padtemplate.
* <example>
* <title>Create a pad from a padtemplate</title>
* GstStaticPadTemplate my_template =
* GST_STATIC_PAD_TEMPLATE (
   "sink".
               // the name of the pad
   GST_PAD_SINK, // the direction of the pad
   GST_PAD_ALWAYS, // when this pad will be present
   GST_STATIC_CAPS ( // the capabilities of the padtemplate
     "audio/x-raw-int, "
      "channels = (int) [1, 6]"
   )
* void
```

```
my_method (void)
* {
* GstPad *pad;
   pad = gst_pad_new_from_static_template (&my_template, "sink");
 }
* 
* </example>
* The following example shows you how to add the padtemplate to an
* element class, this is usually done in the base_init of the class:
* <informalexample>
* static void
* my_element_base_init (gpointer g_class)
   GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
   gst_element_class_add_pad_template (gstelement_class,
     gst_static_pad_template_get (&my_template));
*
 }
 * </informalexample>
* Last reviewed on 2006-02-14 (0.10.3)
#include "gst_private.h"
#include "gstpad.h"
#include "gstpadtemplate.h"
#include "gstenumtypes.h"
#include "gstmarshal.h"
#include "gstutils.h"
#include "gstinfo.h"
#include "gsterror.h"
#include "gstvalue.h"
#define GST_CAT_DEFAULT GST_CAT_PADS
enum
PROP_NAME_TEMPLATE = 1,
PROP_DIRECTION,
PROP_PRESENCE,
PROP_CAPS
};
```

```
enum
TEMPL_PAD_CREATED,
/* FILL ME */
LAST SIGNAL
static GstObject *parent_class = NULL;
static guint gst_pad_template_signals[LAST_SIGNAL] = { 0 };
static void gst_pad_template_dispose (GObject * object);
static void gst_pad_template_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_pad_template_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
G_DEFINE_TYPE (GstPadTemplate, gst_pad_template, GST_TYPE_OBJECT);
static void
gst_pad_template_class_init (GstPadTemplateClass * klass)
GObjectClass *gobject_class;
GstObjectClass *gstobject_class;
gobject_class = (GObjectClass *) klass;
gstobject_class = (GstObjectClass *) klass;
parent_class = g_type_class_peek_parent (klass);
/**
 * GstPadTemplate::pad-created:
 * @pad_template: the object which received the signal.
 * @pad: the pad that was created.
 * This signal is fired when an element creates a pad from this template.
gst_pad_template_signals[TEMPL_PAD_CREATED] =
  g_signal_new ("pad-created", G_TYPE_FROM_CLASS (klass), G_SIGNAL_RUN_LAST,
  G_STRUCT_OFFSET (GstPadTemplateClass, pad_created),
  NULL, NULL, gst_marshal_VOID_OBJECT, G_TYPE_NONE, 1, GST_TYPE_PAD);
gobject_class->dispose = gst_pad_template_dispose;
gobject_class->get_property = gst_pad_template_get_property;
gobject_class->set_property = gst_pad_template_set_property;
 * GstPadTemplate:name-template
```

```
* The name template of the pad template.
* Since: 0.10.21
g_object_class_install_property (gobject_class, PROP_NAME_TEMPLATE,
  g param spec string ("name-template", "Name template",
    "The name template of the pad template", NULL,
    G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));
/**
* GstPadTemplate:direction
* The direction of the pad described by the pad template.
* Since: 0.10.21
g_object_class_install_property (gobject_class, PROP_DIRECTION,
  g_param_spec_enum ("direction", "Direction",
    "The direction of the pad described by the pad template",
    GST TYPE PAD DIRECTION, GST PAD UNKNOWN,
    G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));
/**
* GstPadTemplate:presence
* When the pad described by the pad template will become available.
* Since: 0.10.21
g_object_class_install_property (gobject_class, PROP_PRESENCE,
  g_param_spec_enum ("presence", "Presence",
    "When the pad described by the pad template will become available",
    GST_TYPE_PAD_PRESENCE, GST_PAD_ALWAYS,
    G_PARAM_READWRITE | G_PARAM_CONSTRUCT_ONLY | G_PARAM_STATIC_STRINGS));
/**
* GstPadTemplate:caps
* The capabilities of the pad described by the pad template.
* Since: 0.10.21
*/
g_object_class_install_property (gobject_class, PROP_CAPS,
  g_param_spec_boxed ("caps", "Caps",
    "The capabilities of the pad described by the pad template",
    GST_TYPE_CAPS,
    G\_PARAM\_READWRITE \mid G\_PARAM\_CONSTRUCT\_ONLY \mid G\_PARAM\_STATIC\_STRINGS));
```

```
gstobject_class->path_string_separator = "*";
}
static void
gst_pad_template_init (GstPadTemplate * templ)
/* FIXME 0.11: Does anybody remember why this is here? If not, let's
 * change it for 0.11 and let gst_element_class_add_pad_template() for
 * example ref/sink the pad templates.
/* We ensure that the pad template we're creating has a sunken reference.
 * Inconsistencies in pad templates being floating or sunken has caused
 * problems in the past with leaks, etc.
 * For consistency, then, we only produce them with sunken references
 * owned by the creator of the object
if (GST_OBJECT_IS_FLOATING (templ)) {
 gst_object_ref_sink (templ);
}
}
static void
gst_pad_template_dispose (GObject * object)
GstPadTemplate *templ = GST PAD TEMPLATE (object);
g_free (GST_PAD_TEMPLATE_NAME_TEMPLATE (templ));
if (GST_PAD_TEMPLATE_CAPS (templ)) {
 gst_caps_unref (GST_PAD_TEMPLATE_CAPS (templ));
}
G_OBJECT_CLASS (parent_class)->dispose (object);
}
/* ALWAYS padtemplates cannot have conversion specifications (like src_%d),
* since it doesn't make sense.
* SOMETIMES padtemplates can do whatever they want, they are provided by the
* element.
* REQUEST padtemplates can be reverse-parsed (the user asks for 'sink1', the
* 'sink%d' template is automatically selected), so we need to restrict their
* naming.
*/
static gboolean
name_is_valid (const gchar * name, GstPadPresence presence)
{
const gchar *str;
```

```
if (presence == GST_PAD_ALWAYS) {
 if (strchr (name, '%')) {
  g_warning ("invalid name template %s: conversion specifications are not"
     " allowed for GST_PAD_ALWAYS padtemplates", name);
  return FALSE;
 }
} else if (presence == GST_PAD_REQUEST) {
 if ((str = strchr (name, '%')) && strchr (str + 1, '%')) {
  g warning ("invalid name template %s: only one conversion specification"
     " allowed in GST_PAD_REQUEST padtemplate", name);
  return FALSE;
 }
 if (str && (*(str + 1) != 's' && *(str + 1) != 'd' && *(str + 1) != 'u')) {
  g_warning ("invalid name template %s: conversion specification must be of"
     "type '%%d', '%%u' or '%%s' for GST_PAD_REQUEST padtemplate", name);
  return FALSE;
 }
 if (str && (*(str + 2) != '\0')) {
  g_warning ("invalid name template %s: conversion specification must"
     " appear at the end of the GST_PAD_REQUEST padtemplate name", name);
  return FALSE;
 }
return TRUE;
GType
gst_static_pad_template_get_type (void)
static GType staticpadtemplate_type = 0;
if (G_UNLIKELY (staticpadtemplate_type == 0)) {
 staticpadtemplate_type =
   g_pointer_type_register_static ("GstStaticPadTemplate");
return staticpadtemplate_type;
* gst_static_pad_template_get:
* @pad_template: the static pad template
* Converts a #GstStaticPadTemplate into a #GstPadTemplate.
* Returns: (transfer full): a new #GstPadTemplate.
```

```
/* FIXME0.11: rename to gst_pad_template_new_from_static_pad_template() */
GstPadTemplate *
gst_static_pad_template_get (GstStaticPadTemplate * pad_template)
GstPadTemplate *new;
GstCaps *caps;
if (!name_is_valid (pad_template->name_template, pad_template->presence))
 return NULL;
caps = gst_static_caps_get (&pad_template->static_caps);
new = g_object_new (gst_pad_template_get_type (),
   "name", pad_template->name_template,
   "name-template", pad_template->name_template,
   "direction", pad_template->direction,
   "presence", pad_template->presence, "caps", caps, NULL);
gst_caps_unref (caps);
return new;
}
/**
* gst_pad_template_new:
* @name template: the name template.
* @direction: the #GstPadDirection of the template.
* @presence: the #GstPadPresence of the pad.
* @caps: (transfer full): a #GstCaps set for the template. The caps are
    taken ownership of.
* Creates a new pad template with a name according to the given template
* and with the given arguments. This functions takes ownership of the provided
* caps, so be sure to not use them afterwards.
* Returns: (transfer full): a new #GstPadTemplate.
GstPadTemplate *
gst_pad_template_new (const gchar * name_template,
 GstPadDirection direction, GstPadPresence presence, GstCaps * caps)
GstPadTemplate *new;
g_return_val_if_fail (name_template != NULL, NULL);
g_return_val_if_fail (caps != NULL, NULL);
g_return_val_if_fail (direction == GST_PAD_SRC
   || direction == GST_PAD_SINK, NULL);
g_return_val_if_fail (presence == GST_PAD_ALWAYS
```

```
|| presence == GST_PAD_SOMETIMES || presence == GST_PAD_REQUEST, NULL);
if (!name_is_valid (name_template, presence)) {
 gst_caps_unref (caps);
 return NULL;
}
new = g_object_new (gst_pad_template_get_type (),
  "name", name_template, "name-template", name_template,
  "direction", direction, "presence", presence, "caps", caps, NULL);
gst_caps_unref (caps);
return new;
/**
* gst static pad template get caps:
* @templ: a #GstStaticPadTemplate to get capabilities of.
* Gets the capabilities of the static pad template.
* Returns: (transfer full): the #GstCaps of the static pad template.
* Unref after usage. Since the core holds an additional
* ref to the returned caps, use gst_caps_make_writable()
* on the returned caps to modify it.
GstCaps *
gst_static_pad_template_get_caps (GstStaticPadTemplate * templ)
g_return_val_if_fail (templ, NULL);
return (GstCaps *) gst_static_caps_get (&templ->static_caps);
}
* gst_pad_template_get_caps:
* @templ: a #GstPadTemplate to get capabilities of.
* Gets the capabilities of the pad template.
* Returns: (transfer none): the #GstCaps of the pad template. If you need to
    keep a reference to the caps, take a ref (see gst_caps_ref ()).
*/
GstCaps *
gst_pad_template_get_caps (GstPadTemplate * templ)
g_return_val_if_fail (GST_IS_PAD_TEMPLATE (templ), NULL);
```

```
return GST_PAD_TEMPLATE_CAPS (templ);
/**
* gst_pad_template_pad_created:
* @templ: a #GstPadTemplate that has been created
* @pad: the #GstPad that created it
* Emit the pad-created signal for this template when created by this pad.
void
gst_pad_template_pad_created (GstPadTemplate * templ, GstPad * pad)
g_signal_emit (templ, gst_pad_template_signals[TEMPL_PAD_CREATED], 0, pad);
}
static void
gst_pad_template_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
/* these properties are all construct-only */
switch (prop_id) {
 case PROP NAME TEMPLATE:
  GST_PAD_TEMPLATE_NAME_TEMPLATE (object) = g_value_dup_string (value);
  break:
 case PROP DIRECTION:
  GST_PAD_TEMPLATE_DIRECTION (object) =
     (GstPadDirection) g_value_get_enum (value);
  break;
 case PROP_PRESENCE:
  GST_PAD_TEMPLATE_PRESENCE (object) =
     (GstPadPresence) g_value_get_enum (value);
  break:
 case PROP CAPS:
  /* allow caps == NULL for backwards compatibility (ie. g_object_new()
   * called without any of the new properties) (FIXME 0.11) */
  if (g_value_get_boxed (value) != NULL) {
   GST_PAD_TEMPLATE_CAPS (object) =
      gst_caps_copy (g_value_get_boxed (value));
  }
  break;
  default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
```

```
static void
gst_pad_template_get_property (GObject * object, guint prop_id, GValue * value,
 GParamSpec * pspec)
/* these properties are all construct-only */
switch (prop_id) {
 case PROP NAME TEMPLATE:
  g_value_set_string (value, GST_PAD_TEMPLATE_NAME_TEMPLATE (object));
  break;
 case PROP DIRECTION:
  g_value_set_enum (value, GST_PAD_TEMPLATE_DIRECTION (object));
  break;
 case PROP PRESENCE:
  g_value_set_enum (value, GST_PAD_TEMPLATE_PRESENCE (object));
  break;
 case PROP CAPS:
  g_value_set_boxed (value, GST_PAD_TEMPLATE_CAPS (object));
  break:
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break:
}
}
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen < omega@cse.ogi.edu>
            2000 Wim Taymans < wim.taymans@chello.be>
* gstpadtemplate.h: Header for GstPadTemplate object
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef __GST_PAD_TEMPLATE_H__
#define __GST_PAD_TEMPLATE_H__
```

```
#include <gst/gstconfig.h>
#include <gst/gstobject.h>
#include <gst/gstbuffer.h>
#include <gst/gstcaps.h>
#include <gst/gstevent.h>
#include <gst/gstquery.h>
#include <gst/gsttask.h>
G_BEGIN_DECLS
/* FIXME: this awful circular dependency need to be resolved properly (see pad.h) */
/*typedef struct _GstPadTemplate GstPadTemplate; */
typedef struct _GstPadTemplateClass GstPadTemplateClass;
typedef struct GstStaticPadTemplate GstStaticPadTemplate;
#define GST TYPE STATIC PAD TEMPLATE (gst static pad template get type ())
#define GST_TYPE_PAD_TEMPLATE (gst_pad_template_get_type ())
#define GST_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_CAST ((obj),
GST_TYPE_PAD_TEMPLATE,GstPadTemplate))
#define GST_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST ((klass),
GST TYPE PAD TEMPLATE, GstPadTemplateClass))
#define GST_IS_PAD_TEMPLATE(obj) (G_TYPE_CHECK_INSTANCE_TYPE ((obj),
GST TYPE PAD TEMPLATE))
#define GST_IS_PAD_TEMPLATE_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE ((klass),
GST_TYPE_PAD_TEMPLATE))
/**
* GstPadPresence:
* @GST_PAD_ALWAYS: the pad is always available
* @GST_PAD_SOMETIMES: the pad will become available depending on the media stream
* @GST_PAD_REQUEST: the pad is only available on request with
* gst_element_get_request_pad().
* Indicates when this pad will become available.
typedef enum {
GST_PAD_ALWAYS,
GST_PAD_SOMETIMES,
GST_PAD_REQUEST
} GstPadPresence;
* GST_PAD_TEMPLATE_NAME_TEMPLATE:
* @templ: the template to query
```

```
* Get the nametemplate of the padtemplate.
#define GST_PAD_TEMPLATE_NAME_TEMPLATE(templ) (((GstPadTemplate *)(templ))->name_template)
/**
* GST_PAD_TEMPLATE_DIRECTION:
* @templ: the template to query
* Get the #GstPadDirection of the padtemplate.
#define GST_PAD_TEMPLATE_DIRECTION(templ) (((GstPadTemplate *)(templ))->direction)
/**
* GST_PAD_TEMPLATE_PRESENCE:
* @templ: the template to query
* Get the #GstPadPresence of the padtemplate.
#define GST_PAD_TEMPLATE_PRESENCE(templ) (((GstPadTemplate *)(templ))->presence)
/**
* GST_PAD_TEMPLATE_CAPS:
* @templ: the template to query
* Get a handle to the padtemplate #GstCaps
#define GST_PAD_TEMPLATE_CAPS(templ) (((GstPadTemplate *)(templ))->caps)
* GstPadTemplateFlags:
* @GST_PAD_TEMPLATE_FIXED: the padtemplate has no variable properties
* @GST_PAD_TEMPLATE_FLAG_LAST: first flag that can be used by subclasses.
* Flags for the padtemplate
*/
typedef enum {
/* FIXME0.11: this is not used and the purpose is unclear */
GST_PAD_TEMPLATE_FIXED = (GST_OBJECT_FLAG_LAST << 0),
/* padding */
GST_PAD_TEMPLATE_FLAG_LAST = (GST_OBJECT_FLAG_LAST << 4)
} GstPadTemplateFlags;
/**
* GST_PAD_TEMPLATE_IS_FIXED:
* @templ: the template to query
* Check if the properties of the padtemplate are fixed
```

```
GST_PAD_TEMPLATE_FIXED))
/**
* GstPadTemplate:
* The padtemplate object.
struct _GstPadTemplate {
GstObject object;
            *name_template;
gchar
GstPadDirection direction;
GstPadPresence presence;
GstCaps *caps;
gpointer _gst_reserved[GST_PADDING];
struct _GstPadTemplateClass {
GstObjectClass parent_class;
/* signal callbacks */
void (*pad_created) (GstPadTemplate *templ, GstPad *pad);
gpointer _gst_reserved[GST_PADDING];
};
/**
* GstStaticPadTemplate:
* @name_template: the name of the template
* @direction: the direction of the template
* @presence: the presence of the template
* @static_caps: the caps of the template.
* Structure describing the #GstStaticPadTemplate.
*/
struct _GstStaticPadTemplate {
const gchar *name_template;
GstPadDirection direction;
GstPadPresence presence;
GstStaticCaps static_caps;
};
/**
* GST_STATIC_PAD_TEMPLATE:
* @padname: the name template of the pad
```

#define GST_PAD_TEMPLATE_IS_FIXED(templ) (GST_OBJECT_FLAG_IS_SET(templ,

* @dir: the GstPadDirection of the pad

```
* @pres: the GstPadPresence of the pad
* @caps: the GstStaticCaps of the pad
* Convenience macro to fill the values of a GstStaticPadTemplate
* structure.
*/
#define GST STATIC PAD TEMPLATE(padname, dir, pres, caps) \
/* name_template */ padname, \
/* direction */
                 dir, \
/* presence */ pres, \
/* caps */
                caps \
}
/* templates and factories */
GType gst_pad_template_get_type (void);
GType gst_static_pad_template_get_type (void);
GstPadTemplate* gst_pad_template_new (const gchar *name_template,
     GstPadDirection direction, GstPadPresence presence,
     GstCaps *caps) G_GNUC_MALLOC;
GstPadTemplate * gst_static_pad_template_get
                                                    (GstStaticPadTemplate *pad_template);
GstCaps* gst_static_pad_template_get_caps (GstStaticPadTemplate *templ);
GstCaps* gst_pad_template_get_caps (GstPadTemplate *templ);
void
               gst_pad_template_pad_created
                                                   (GstPadTemplate * templ, GstPad * pad);
G END DECLS
#endif /* __GST_PAD_TEMPLATE_H__ */
* Check: a unit test framework for C
* Copyright (C) 2001,2002 Arien Malec
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2.1 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Lesser General Public License for more details.
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
```

```
* Boston, MA 02111-1307, USA.
#ifndef CHECK_IMPL_H
#define CHECK_IMPL_H
/* This header should be included by any module that needs
 to know the implementation details of the check structures
 Include stdio.h & list.h before this header
typedef struct TF {
TFun fn;
int loop_start;
int loop_end;
const char *name;
int signal;
unsigned char allowed_exit_value;
} TF;
struct Suite {
const char *name;
List *tclst; /* List of test cases */
};
typedef struct Fixture
int ischecked;
SFun fun;
} Fixture;
struct TCase {
const char *name;
int timeout;
List *tflst; /* list of test functions */
List *unch_sflst;
List *unch_tflst;
List *ch_sflst;
List *ch_tflst;
};
typedef struct TestStats {
int n_checked;
int n_failed;
int n_errors;
} TestStats;
```

```
struct TestResult {
enum test_result rtype; /* Type of result */
enum ck_result_ctx ctx; /* When the result occurred */
char *file; /* File where the test occured */
int line:
          /* Line number where the test occurred */
           /* The iteration value for looping tests */
int iter;
const char *tcname; /* Test case that generated the result */
const char *tname; /* Test that generated the result */
char *msg; /* Failure message */
};
TestResult *tr_create(void);
void tr reset(TestResult *tr);
enum cl_event {
CLINITLOG_SR,
CLENDLOG_SR,
CLSTART SR,
CLSTART_S,
CLEND_SR,
CLEND S,
CLSTART_T, /* A test case is about to run */
CLEND_T
};
typedef void (*LFun) (SRunner *, FILE*, enum print_output,
    void *, enum cl_event);
typedef struct Log {
FILE *lfile;
LFun lfun;
int close;
enum print_output mode;
} Log;
struct SRunner {
List *slst; /* List of Suite objects */
TestStats *stats; /* Run statistics */
List *resultlst; /* List of unit test results */
const char *log_fname; /* name of log file */
const char *xml_fname; /* name of xml output file */
List *loglst; /* list of Log objects */
enum fork_status fstat; /* controls if suites are forked or not
    NOTE: Don't use this value directly,
    instead use srunner_fork_status */
};
```

```
void set_fork_status(enum fork_status fstat);
enum fork_status cur_fork_status (void);
#endif /* CHECK_IMPL_H */
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen < omega@cse.ogi.edu>
             2000 Wim Taymans <wtay@chello.be>
             2005 Wim Taymans <wim@fluendo.com>
             2005 David Schleef < ds@schleef.org>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
* SECTION:element-capsfilter
* The element does not modify data as such, but can enforce limitations on the
* data format.
* <refsect2>
* <title>Example launch line</title>
* |[
* gst-launch videotestsrc! video/x-raw-gray! ffmpegcolorspace! autovideosink
* ] Limits acceptable video from videotestsrc to be grayscale.
* </refsect2>
*/
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include "../../gst/gst-i18n-lib.h"
#include "gstcapsfilter.h"
enum
{
```

```
PROP 0,
PROP FILTER CAPS
static GstStaticPadTemplate sinktemplate = GST_STATIC_PAD_TEMPLATE ("sink",
 GST PAD SINK,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS_ANY);
static GstStaticPadTemplate srctemplate = GST_STATIC_PAD_TEMPLATE ("src",
 GST_PAD_SRC,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS_ANY);
GST_DEBUG_CATEGORY_STATIC (gst_capsfilter_debug);
#define GST_CAT_DEFAULT gst_capsfilter_debug
#define _do_init(bla) \
 GST DEBUG CATEGORY INIT (gst capsfilter debug, "capsfilter", 0, \
 "capsfilter element");
GST BOILERPLATE FULL (GstCapsFilter, gst capsfilter, GstBaseTransform,
 GST_TYPE_BASE_TRANSFORM, _do_init);
static void gst_capsfilter_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_capsfilter_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
static void gst_capsfilter_dispose (GObject * object);
static GstCaps *gst_capsfilter_transform_caps (GstBaseTransform * base,
 GstPadDirection direction, GstCaps * caps);
static gboolean gst_capsfilter_accept_caps (GstBaseTransform * base,
 GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_capsfilter_transform_ip (GstBaseTransform * base,
 GstBuffer * buf);
static GstFlowReturn gst_capsfilter_prepare_buf (GstBaseTransform * trans,
 GstBuffer * input, gint size, GstCaps * caps, GstBuffer ** buf);
static void
gst_capsfilter_base_init (gpointer g_class)
GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
gst_element_class_set_details_simple (gstelement_class,
```

```
"CapsFilter",
  "Generic".
  "Pass data without modification, limiting formats",
  "David Schleef <ds@schleef.org>");
gst_element_class_add_pad_template (gstelement_class,
  gst_static_pad_template_get (&srctemplate));
gst element class add pad template (gstelement class,
  gst_static_pad_template_get (&sinktemplate));
static void
gst_capsfilter_class_init (GstCapsFilterClass * klass)
GObjectClass *gobject_class;
GstBaseTransformClass *trans_class;
gobject_class = G_OBJECT_CLASS (klass);
gobject_class->set_property = gst_capsfilter_set_property;
gobject_class->get_property = gst_capsfilter_get_property;
gobject_class->dispose = gst_capsfilter_dispose;
g_object_class_install_property (gobject_class, PROP_FILTER_CAPS,
  g_param_spec_boxed ("caps", _("Filter caps"),
     _("Restrict the possible allowed capabilities (NULL means ANY)."
       "Setting this property takes a reference to the supplied GstCaps"
       "object."), GST TYPE CAPS,
     G PARAM READWRITE | G PARAM STATIC STRINGS));
trans_class = GST_BASE_TRANSFORM_CLASS (klass);
trans class->transform caps =
  GST_DEBUG_FUNCPTR (gst_capsfilter_transform_caps);
trans_class->transform_ip = GST_DEBUG_FUNCPTR (gst_capsfilter_transform_ip);
trans_class->accept_caps = GST_DEBUG_FUNCPTR (gst_capsfilter_accept_caps);
trans_class->prepare_output_buffer =
  GST_DEBUG_FUNCPTR (gst_capsfilter_prepare_buf);
}
static void
gst_capsfilter_init (GstCapsFilter * filter, GstCapsFilterClass * g_class)
{
GstBaseTransform *trans = GST_BASE_TRANSFORM (filter);
gst_base_transform_set_gap_aware (trans, TRUE);
filter->filter_caps = gst_caps_new_any ();
}
static gboolean
copy_func (GQuark field_id, const GValue * value, GstStructure * dest)
```

```
gst_structure_id_set_value (dest, field_id, value);
return TRUE;
}
static void
gst_capsfilter_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
GstCapsFilter *capsfilter = GST CAPSFILTER (object);
switch (prop_id) {
 case PROP_FILTER_CAPS:{
  GstCaps *new_caps;
  GstCaps *old_caps, *suggest, *nego;
  const GstCaps *new_caps_val = gst_value_get_caps (value);
  if (new caps val == NULL) {
   new_caps = gst_caps_new_any ();
  } else {
   new_caps = (GstCaps *) new_caps_val;
   gst_caps_ref (new_caps);
  }
  GST_OBJECT_LOCK (capsfilter);
  old_caps = capsfilter->filter_caps;
  capsfilter_caps = new_caps;
  GST_OBJECT_UNLOCK (capsfilter);
  gst_caps_unref (old_caps);
  GST_DEBUG_OBJECT (capsfilter, "set new caps %" GST_PTR_FORMAT, new_caps);
  /* filter the currently negotiated format against the new caps */
  GST_OBJECT_LOCK (GST_BASE_TRANSFORM_SINK_PAD (object));
  nego = GST_PAD_CAPS (GST_BASE_TRANSFORM_SINK_PAD (object));
  if (nego) {
   GST_DEBUG_OBJECT (capsfilter, "we had negotiated caps %" GST_PTR_FORMAT,
      nego);
   if (G_UNLIKELY (gst_caps_is_any (new_caps))) {
     GST_DEBUG_OBJECT (capsfilter, "not settings any suggestion");
    suggest = NULL;
    } else {
    GstStructure *s1, *s2;
    /* first check if the name is the same */
```

```
s1 = gst_caps_get_structure (nego, 0);
     s2 = gst_caps_get_structure (new_caps, 0);
     if (gst_structure_get_name_id (s1) == gst_structure_get_name_id (s2)) {
      /* same name, copy all fields from the new caps into the previously
      * negotiated caps */
      suggest = gst_caps_copy (nego);
      s1 = gst_caps_get_structure (suggest, 0);
      gst_structure_foreach (s2, (GstStructureForeachFunc) copy_func, s1);
      GST DEBUG OBJECT (capsfilter, "copied structure fields");
     } else {
      GST_DEBUG_OBJECT (capsfilter, "different structure names");
      /* different names, we can only suggest the complete caps */
      suggest = gst_caps_copy (new_caps);
     }
    }
  } else {
   GST DEBUG OBJECT (capsfilter, "no negotiated caps");
   /* Suggest the new caps, we can't just rely on _get_caps as this may
    * already be called at this point even though no buffer has been
    * pushed yet */
   suggest = gst_caps_copy (new_caps);
  GST OBJECT UNLOCK (GST BASE TRANSFORM SINK PAD (object));
  GST_DEBUG_OBJECT (capsfilter, "suggesting new caps %" GST_PTR_FORMAT,
     suggest);
  gst_base_transform_suggest (GST_BASE_TRANSFORM (object), suggest, 0);
  if (suggest)
   gst_caps_unref (suggest);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
static void
gst_capsfilter_get_property (GObject * object, guint prop_id, GValue * value,
 GParamSpec * pspec)
GstCapsFilter *capsfilter = GST_CAPSFILTER (object);
switch (prop_id) {
 case PROP_FILTER_CAPS:
  GST_OBJECT_LOCK (capsfilter);
```

} }

```
gst_value_set_caps (value, capsfilter->filter_caps);
  GST_OBJECT_UNLOCK (capsfilter);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
}
}
static void
gst_capsfilter_dispose (GObject * object)
GstCapsFilter *filter = GST_CAPSFILTER (object);
gst_caps_replace (&filter->filter_caps, NULL);
G_OBJECT_CLASS (parent_class)->dispose (object);
static GstCaps *
gst_capsfilter_transform_caps (GstBaseTransform * base,
 GstPadDirection direction, GstCaps * caps)
GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
GstCaps *ret, *filter_caps;
GST_OBJECT_LOCK (capsfilter);
filter_caps = gst_caps_ref (capsfilter->filter_caps);
GST_OBJECT_UNLOCK (capsfilter);
ret = gst_caps_intersect (caps, filter_caps);
GST_DEBUG_OBJECT (capsfilter, "input: %" GST_PTR_FORMAT, caps);
GST_DEBUG_OBJECT (capsfilter, "filter: %" GST_PTR_FORMAT, filter_caps);
GST_DEBUG_OBJECT (capsfilter, "intersect: %" GST_PTR_FORMAT, ret);
gst_caps_unref (filter_caps);
return ret;
static gboolean
gst_capsfilter_accept_caps (GstBaseTransform * base,
 GstPadDirection direction, GstCaps * caps)
GstCapsFilter *capsfilter = GST_CAPSFILTER (base);
GstCaps *filter_caps;
gboolean ret;
```

```
GST_OBJECT_LOCK (capsfilter);
filter_caps = gst_caps_ref (capsfilter->filter_caps);
GST_OBJECT_UNLOCK (capsfilter);
ret = gst_caps_can_intersect (caps, filter_caps);
GST_DEBUG_OBJECT (capsfilter, "can intersect: %d", ret);
if (ret) {
 /* if we can intersect, see if the other end also accepts */
 if (direction == GST_PAD_SRC)
  ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SINK_PAD (base), caps);
   ret = gst_pad_peer_accept_caps (GST_BASE_TRANSFORM_SRC_PAD (base), caps);
 GST DEBUG OBJECT (capsfilter, "peer accept: %d", ret);
gst_caps_unref (filter_caps);
return ret;
}
static GstFlowReturn
gst_capsfilter_transform_ip (GstBaseTransform * base, GstBuffer * buf)
/* No actual work here. It's all done in the prepare output buffer
 * func. */
return GST FLOW OK;
/* Output buffer preparation... if the buffer has no caps, and
* our allowed output caps is fixed, then give the caps to the
* buffer.
* This ensures that outgoing buffers have caps if we can, so
* that pipelines like:
* gst-launch filesrc location=rawsamples.raw!
     audio/x-raw-int,width=16,depth=16,rate=48000,channels=2,
     endianness=4321,signed='(boolean)'true! alsasink
* will work.
static GstFlowReturn
gst_capsfilter_prepare_buf (GstBaseTransform * trans, GstBuffer * input,
 gint size, GstCaps * caps, GstBuffer ** buf)
GstFlowReturn ret = GST_FLOW_OK;
if (GST_BUFFER_CAPS (input) != NULL) {
 /* Output buffer already has caps */
 GST_LOG_OBJECT (trans, "Input buffer already has caps (implicitly fixed)");
 /* FIXME : Move this behaviour to basetransform. The given caps are the ones
```

```
* of the source pad, therefore our outgoing buffers should always have
 * those caps. */
if (GST_BUFFER_CAPS (input) != caps) {
  /* caps are different, make a metadata writable output buffer to set
  if (gst_buffer_is_metadata_writable (input)) {
   /* input is writable, just set caps and use this as the output */
   *buf = input;
   gst_buffer_set_caps (*buf, caps);
   gst_buffer_ref (input);
  } else {
   GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
   *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
   gst_buffer_set_caps (*buf, caps);
  }
 } else {
 /* caps are right, just use a ref of the input as the outbuf */
  *buf = input;
  gst_buffer_ref (input);
 }
} else {
/* Buffer has no caps. See if the output pad only supports fixed caps */
GstCaps *out_caps;
out_caps = GST_PAD_CAPS (trans->srcpad);
if (out caps != NULL) {
 gst_caps_ref (out_caps);
 } else {
 out_caps = gst_pad_get_allowed_caps (trans->srcpad);
  g_return_val_if_fail (out_caps != NULL, GST_FLOW_ERROR);
 }
out_caps = gst_caps_make_writable (out_caps);
gst_caps_do_simplify (out_caps);
if (gst_caps_is_fixed (out_caps) && !gst_caps_is_empty (out_caps)) {
  GST_DEBUG_OBJECT (trans, "Have fixed output caps %"
    GST_PTR_FORMAT " to apply to buffer with no caps", out_caps);
  if (gst_buffer_is_metadata_writable (input)) {
   gst_buffer_ref (input);
   *buf = input;
  } else {
   GST_DEBUG_OBJECT (trans, "Creating sub-buffer and setting caps");
   *buf = gst_buffer_create_sub (input, 0, GST_BUFFER_SIZE (input));
  GST_BUFFER_CAPS (*buf) = out_caps;
```

```
if (GST_PAD_CAPS (trans->srcpad) == NULL)
    gst_pad_set_caps (trans->srcpad, out_caps);
  } else {
  gchar *caps_str = gst_caps_to_string (out_caps);
  GST_DEBUG_OBJECT (trans, "Cannot choose caps. Have unfixed output caps %"
     GST PTR FORMAT, out caps);
  gst_caps_unref (out_caps);
  ret = GST FLOW ERROR;
  GST_ELEMENT_ERROR (trans, STREAM, FORMAT,
     ("Filter caps do not completely specify the output format"),
     ("Output caps are unfixed: %s", caps_str));
  g_free (caps_str);
  }
}
return ret;
}
/* GStreamer
* Copyright (C) 1999,2000 Erik Walthinsen < omega@cse.ogi.edu>
            2000 Wim Taymans < wtay@chello.be>
* gstidentity.h:
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef __GST_CAPSFILTER_H__
#define __GST_CAPSFILTER_H__
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
```

```
G_BEGIN_DECLS
```

```
#define GST_TYPE_CAPSFILTER \
(gst_capsfilter_get_type())
#define GST_CAPSFILTER(obj) \
(G TYPE CHECK INSTANCE CAST((obj),GST TYPE CAPSFILTER,GstCapsFilter))
#define GST_CAPSFILTER_CLASS(klass) \
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_CAPSFILTER,GstCapsFilterClass))
#define GST IS CAPSFILTER(obj) \
(G\_TYPE\_CHECK\_INSTANCE\_TYPE((obj),GST\_TYPE\_CAPSFILTER))
#define GST_IS_CAPSFILTER_CLASS(klass) \
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_CAPSFILTER))
typedef struct _GstCapsFilter GstCapsFilter;
typedef struct _GstCapsFilterClass GstCapsFilterClass;
* GstCapsFilter:
* The opaque #GstCapsFilter data structure.
struct _GstCapsFilter {
GstBaseTransform trans;
GstCaps *filter_caps;
struct _GstCapsFilterClass {
GstBaseTransformClass trans class;
};
GType gst_capsfilter_get_type (void);
G_END_DECLS
#endif /* GST CAPSFILTER H */
```

1.12 gstreamer-plugins-bad 0.10.22.1

1.12.1 Available under license:

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
 - b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

- 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
 - a) Accompany it with the complete corresponding machine-readable
 source code, which must be distributed under the terms of Sections
 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
- 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because 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 are intended to guarantee your freedom to share and change free software--to make sure 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 libraries 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies 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 must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling 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 copy, 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 the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced 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 will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must 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 license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, 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 program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might 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 themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead 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 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.

GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also 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 some 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" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library 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 conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence 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

- 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 modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - b) You must cause the files modified to carry prominent notices stating that you 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 third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does 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 must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these 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 copies 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 terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 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 code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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 copyright notices, you must include the copyright notice for the Library among them, as well 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 Library", as object code and/or source code, so that the user can modify the Library and 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 modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy

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

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

```
/* GStreamer
```

- * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
- *
- * This library is free software; you can redistribute it and/or
- * modify it under the terms of the GNU Library General Public
- * License as published by the Free Software Foundation; either
- * version 2 of the License, or (at your option) any later version.

*

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

*

- * You should have received a copy of the GNU Library General Public
- * License along with this library; if not, write to the
- * Free Software Foundation, Inc., 59 Temple Place Suite 330,
- * Boston, MA 02111-1307, USA.

*/

Disclaimer: The GStreamer team makes a real effort to make sure that the information in this file is as up-to-date and accurate as possible. However, this file may contain errors and omissions. Some dependant libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

```
a52dec
             liba52
                          (http://liba52.sourceforge.net/)
aasink
             aalib
                         (http://sourceforge.net/projects/aa-project/)
cdparanoia
              libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec
            libdts
                         (http://www.videolan.org/dtsdec.html)
dvdnavsrc
              libdvdnav
                             (http://dvd.sourceforge.net/)
dxr3
                       (http://dxr3.sourceforge.net/)
icecastsend
              libshout
                            (http://www.icecast.org)
mad
            libmad
                          (http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec
               libmpeg2
                              (http://libmpeg2.sourceforge.net/)
mpeg2enc
               libmpeg2enc
                               (http://mjpeg.sourceforge.net/)
mplex
             libmplex
                           (http://mjpeg.sourceforge.net/)
```

```
siddec
            libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
trm
            libmusicbrainz (http://www.musicbrainz.org/)
            libxine
                        (http://xinehq.de/)
xine
            libxvidcore
                          (http://www.xvid.org/)
xvid
Plugins derived from GPL code are as follows:
dvdreadsrc
               libdvdread
                             (http://www.dtek.chalmers.se/groups/dvd/)
                None
                             (Algorithm by Ralph Loader, Joerg Walter,
monoscope
                    Richard Boulton, and Andy Lo A Foe)
                         (Erik Walthinsen's algorithm)
rtjpeg
            None
                        (http://www.linphone.org/ortp/)
rtp
           None
synaesthesia
                         (http://www.logarithmic.net/pfh/synaesthesia)
                              (Algorithm by Chrisoph Moar, Wim Tayman's and
system_encode None
                    Erik Walthinsen)
vbidec
             None
                          (Algorithm by Billy Biggs, Doug Bell,
                    Erik Walthinsen and David I. Lehn)
Plugins which use a LGPL library are as follows:
alsa
           alsa
                       (http://alsa-project.org/)
artsdsink
             aRts
                          (http://arts-project.org/)
cacasink
             libcaca
                          (http://sam.zoy.org/projects/libcaca/)
colorspacelcs
              libcolorspace
             libdy
dvdec
                         (http://libdv.sourceforge.net/)
esdmon.esdsink libesd
                             (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac
            libfaac
                        (http://www.audiocoding.com/modules/mydownloads/)
fameenc
              libfame
                           (http://fame.sourceforge.net/)
ffmpeg
             ffmpeg
                           (http://ffmpeg.sourceforge.net/)
              GTK+
gdkpixbuf
                             (http://www.gtk.org/)
gnomevfs
               gnome-vfs
                              (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)
gst arts
             aRts
                         (http://arts-project.org/)
gst1394
             libraw1394
                             (http://www.linux1394.org/)
            libaudiofile
gstaf
                          (http://www.68k.org/~michael/audiofile/)
gstsf
            libsndfile
                         (http://www.mega-nerd.com/libsndfile/)
hermescolorspace Hermes
                                (http://www.clanlib.org/hermes/)
kio
           KDE
                         (http://www.kde.org/)
ladspa
                       (http://www.ladspa.org/)
lame
            libmp3lame
                            (http://lame.sourceforge.net/)
libvisual
             libvisual
                          (http://libvisual.sourceforge.net/)
matroska
                        (http://www.matroska.org/)
mikmod
              libmikmod
                              (http://mikmod.raphnet.net/)
ossaudio
                        (http://www.opensound.com/)
qcamsrc
```

(http://www.libsdl.org/)

(http://www.icecast.org)

librfb

libsdl

libshout2

rfbenc

sdlvideosink

shout2send

smoothwave

swfdec (http://swfdec.sourceforge.net/)
tarkin (http://svn.xiph.org/trunk/tarkin/)
textoverlay pango (http://www.pango.org/)

dirac (http://www.bbc.co.uk/rd/projects/dirac/)
effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)

musepack (http://www.musepack.net/)

kate libtiger (http://libtiger.googlecode.com/)

Optional, only for the tiger element

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)

gsttheora libtheora (http://www.theora.org/)
speex (http://www.speex.org/)
flac libFLAC (http://flac.sourceforge.net/)
kate libkate (http://libkate.googlecode.com/)

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)
osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

```
faad
           libfaad
                       (http://www.audiocoding.com/)
faad's license depends on its major version:
- for FAAD1 : it is LGPL
- for FAAD2: it is GPL
look at these pages for more information on licenses:
http://www.audiocoding.com/modules/wiki/?page=FAAD2
http://www.audiocoding.com/modules/wiki/?page=FAAC
by default, GStreamer faad plugin would compile against FAAD2 if available.
it falls back to FAAD1 if not.
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* Copyright (C) 2003,2004 David A. Schleef <ds@schleef.org>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
/* Element-Checklist-Version: 5 */
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include <math.h>
/*#define DEBUG_ENABLED */
#include "gstaudioresample.h"
#include <gst/audio/audio.h>
GST_DEBUG_CATEGORY_STATIC (audioresample_debug);
#define GST_CAT_DEFAULT audioresample_debug
/* Audioresample signals and args */
```

```
enum
{
/* FILL ME */
LAST_SIGNAL
};
enum
{
ARG_0,
ARG FILTERLEN
};
#define SUPPORTED_CAPS \
GST_STATIC_CAPS (\
  "audio/x-raw-int, " \
  "rate = (int) [1, MAX], "
  "channels = (int) [1, MAX], "
  "endianness = (int) BYTE ORDER, "\
  "width = (int) 16, " \setminus
  "depth = (int) 16, " \setminus
  "signed = (boolean) true"
#if 0
 /* disabled because it segfaults */
"audio/x-raw-float, "
 "rate = (int) [1, MAX],"
 "channels = (int) [1, MAX],"
 "endianness = (int) BYTE_ORDER, " "width = (int) 32"
#endif
 )
  static GstStaticPadTemplate gst_audioresample_sink_template =
    GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK, GST_PAD_ALWAYS, SUPPORTED_CAPS);
  static GstStaticPadTemplate gst_audioresample_src_template =
    GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC, GST_PAD_ALWAYS, SUPPORTED_CAPS);
  static void gst_audioresample_base_init (gpointer g_class);
  static void gst_audioresample_class_init (AudioresampleClass * klass);
  static void gst_audioresample_init (Audioresample * audioresample);
  static void gst_audioresample_dispose (GObject * object);
  static void gst_audioresample_chain (GstPad * pad, GstData * _data);
  static void gst_audioresample_set_property (GObject * object,
    guint prop_id, const GValue * value, GParamSpec * pspec);
  static void gst_audioresample_get_property (GObject * object,
```

```
guint prop_id, GValue * value, GParamSpec * pspec);
  static GstElementClass *parent_class = NULL;
/*static guint gst_audioresample_signals[LAST_SIGNAL] = { 0 }; */
  GType audioresample_get_type (void)
   static GType audioresample_type = 0;
   if (!audioresample_type)
    static const GTypeInfo audioresample_info = {
    sizeof (AudioresampleClass),
        gst_audioresample_base_init,
        NULL,
        (GClassInitFunc) gst_audioresample_class_init,
        NULL,
        NULL.
        sizeof (Audioresample), 0,
        (GInstanceInitFunc) gst audioresample init, };
    audioresample_type =
       g_type_register_static (GST_TYPE_ELEMENT, "Audioresample",
       &audioresample_info, 0);
   return audioresample_type;
  }
static void gst_audioresample_base_init (gpointer g_class)
GstElementClass *gstelement_class = GST_ELEMENT_CLASS (g_class);
gst_element_class_add_pad_template (gstelement_class,
   gst_static_pad_template_get (&gst_audioresample_src_template));
gst_element_class_add_pad_template (gstelement_class,
   gst_static_pad_template_get (&gst_audioresample_sink_template));
gst_element_class_set_details_simple (gstelement_class, "Audio scaler",
   "Filter/Converter/Audio",
   "Resample audio", "David Schleef <ds@schleef.org>");
}
static void gst_audioresample_class_init (AudioresampleClass * klass)
GObjectClass *gobject_class;
GstElementClass *gstelement_class;
```

```
gobject_class = (GObjectClass *) klass;
gstelement_class = (GstElementClass *) klass;
gobject_class->set_property = gst_audioresample_set_property;
gobject_class->get_property = gst_audioresample_get_property;
gobject_class->dispose = gst_audioresample_dispose;
g_object_class_install_property (G_OBJECT_CLASS (klass), ARG_FILTERLEN,
  g_param_spec_int ("filter-length", "filter_length", "filter_length",
     0, G MAXINT, 16,
     G_PARAM_READWRITE | G_PARAM_CONSTRUCT | G_PARAM_STATIC_STRINGS));
parent_class = g_type_class_peek_parent (klass);
GST_DEBUG_CATEGORY_INIT (audioresample_debug, "audioresample", 0,
  "audioresample element");
}
static void gst_audioresample_expand_caps (GstCaps * caps)
gint i;
for (i = 0; i < gst\_caps\_get\_size (caps); i++) {
 GstStructure *structure = gst_caps_get_structure (caps, i);
 const GValue *value:
 value = gst_structure_get_value (structure, "rate");
 if (value == NULL) {
  GST_ERROR ("caps structure doesn't have required rate field");
  return;
 }
 gst_structure_set (structure, "rate", GST_TYPE_INT_RANGE, 1, G_MAXINT, 0);
}
static GstCaps *gst_audioresample_getcaps (GstPad * pad)
Audioresample *audioresample;
GstCaps *caps;
GstPad *otherpad;
audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
  audioresample->srcpad;
caps = gst_pad_get_allowed_caps (otherpad);
```

```
gst_audioresample_expand_caps (caps);
return caps;
}
static GstCaps *gst_audioresample_fixate (GstPad * pad, const GstCaps * caps)
Audioresample *audioresample;
GstPad *otherpad;
int rate:
GstCaps *copy;
GstStructure *structure;
 audioresample = GST\_AUDIORESAMPLE \ (gst\_pad\_get\_parent \ (pad));
if (pad == audioresample->srcpad) {
 otherpad = audioresample->sinkpad;
 rate = audioresample->i_rate;
} else
 otherpad = audioresample->srcpad;
 rate = audioresample->o_rate;
if (!GST_PAD_IS_NEGOTIATING (otherpad))
 return NULL;
if (gst_caps_get_size (caps) > 1)
 return NULL;
copy = gst_caps_copy (caps);
structure = gst_caps_get_structure (copy, 0);
if (rate) {
 if (gst_structure_fixate_field_nearest_int (structure, "rate", rate)) {
  return copy;
 }
gst_caps_free (copy);
return NULL;
}
static GstPadLinkReturn gst_audioresample_link (GstPad * pad,
 const GstCaps * caps)
Audioresample *audioresample;
GstStructure *structure;
int rate;
int channels;
gboolean ret;
GstPad *otherpad;
```

```
audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
 otherpad = (pad == audioresample->srcpad) ? audioresample->sinkpad :
  audioresample->srcpad;
 structure = gst_caps_get_structure (caps, 0);
 ret = gst_structure_get_int (structure, "rate", &rate);
 ret &= gst_structure_get_int (structure, "channels", &channels);
if (!ret)
 return GST_PAD_LINK_REFUSED;
}
if (gst_pad_is_negotiated (otherpad))
 GstCaps *othercaps = gst_caps_copy (caps);
 int otherrate;
 GstPadLinkReturn linkret:
 if (pad == audioresample->srcpad) {
  otherrate = audioresample->i_rate;
 } else {
  otherrate = audioresample->o rate;
 }
 gst_caps_set_simple (othercaps, "rate", G_TYPE_INT, otherrate, NULL);
 linkret = gst_pad_try_set_caps (otherpad, othercaps);
 if (GST_PAD_LINK_FAILED (linkret)) {
  return GST_PAD_LINK_REFUSED;
 }
}
audioresample->channels = channels;
resample_set_n_channels (audioresample->resample, audioresample->channels);
if (pad == audioresample->srcpad) {
 audioresample->o_rate = rate;
 resample_set_output_rate (audioresample->resample, audioresample->o_rate);
 GST_DEBUG ("set o_rate to %d", rate);
} else {
 audioresample->i_rate = rate;
 resample_set_input_rate (audioresample->resample, audioresample->i_rate);
 GST_DEBUG ("set i_rate to %d", rate);
}
return GST_PAD_LINK_OK;
}
```

```
static void gst_audioresample_init (Audioresample * audioresample)
ResampleState *r;
audioresample->sinkpad =
  gst_pad_new_from_static_template (&gst_audioresample_sink_template,
  "sink");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->sinkpad);
gst_pad_set_chain_function (audioresample->sinkpad, gst_audioresample_chain);
gst pad set link function (audioresample->sinkpad, gst audioresample link);
gst_pad_set_getcaps_function (audioresample->sinkpad,
  gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->sinkpad,
  gst_audioresample_fixate);
audioresample->srcpad =
  gst_pad_new_from_static_template (&gst_audioresample_src_template, "src");
gst_element_add_pad (GST_ELEMENT (audioresample), audioresample->srcpad);
gst_pad_set_link_function (audioresample->srcpad, gst_audioresample_link);
gst pad set getcaps function (audioresample->srcpad,
  gst_audioresample_getcaps);
gst_pad_set_fixate_function (audioresample->srcpad, gst_audioresample_fixate);
r = resample_new ();
audioresample = r;
resample_set_filter_length (r, 64);
resample_set_format (r, RESAMPLE_FORMAT_S16);
static void gst_audioresample_dispose (GObject * object)
Audioresample *audioresample = GST_AUDIORESAMPLE (object);
if (audioresample->resample) {
 resample_free (audioresample->resample);
}
G_OBJECT_CLASS (parent_class)->dispose (object);
}
static void gst_audioresample_chain (GstPad * pad, GstData * _data)
GstBuffer *buf = GST_BUFFER (_data);
Audioresample *audioresample;
ResampleState *r;
guchar *data;
```

```
gulong size;
int outsize;
GstBuffer *outbuf;
g_return_if_fail (pad != NULL);
g_return_if_fail (GST_IS_PAD (pad));
g_return_if_fail (buf != NULL);
audioresample = GST_AUDIORESAMPLE (gst_pad_get_parent (pad));
if (!GST_IS_BUFFER (_data)) {
 gst_pad_push (audioresample->srcpad, _data);
 return:
}
if (audioresample->passthru) {
 gst_pad_push (audioresample->srcpad, GST_DATA (buf));
 return;
}
r = audioresample->resample;
data = GST_BUFFER_DATA (buf);
size = GST_BUFFER_SIZE (buf);
GST_DEBUG ("got buffer of %ld bytes", size);
resample_add_input_data (r, data, size, (ResampleCallback) gst_data_unref,
  buf);
outsize = resample_get_output_size (r);
/* FIXME this is audioresample being dumb. dunno why */
if (outsize == 0) {
 GST_ERROR ("overriding outbuf size");
 outsize = size;
outbuf = gst_buffer_new_and_alloc (outsize);
outsize = resample_get_output_data (r, GST_BUFFER_DATA (outbuf), outsize);
GST_BUFFER_SIZE (outbuf) = outsize;
GST_BUFFER_TIMESTAMP (outbuf) =
  audioresample->offset * GST_SECOND / audioresample->o_rate;
audioresample->offset += outsize / sizeof (gint16) / audioresample->channels;
gst_pad_push (audioresample->srcpad, GST_DATA (outbuf));
}
```

```
static void
 gst_audioresample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
Audioresample *audioresample;
 g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
 audioresample = GST_AUDIORESAMPLE (object);
switch (prop_id) {
 case ARG_FILTERLEN:
  audioresample->filter_length = g_value_get_int (value);
  GST_DEBUG_OBJECT (GST_ELEMENT (audioresample), "new filter length %d\n",
     audioresample->filter_length);
  resample_set_filter_length (audioresample->resample,
     audioresample->filter_length);
  default:G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
static void
 gst_audioresample_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec)
Audioresample *audioresample;
g_return_if_fail (GST_IS_AUDIORESAMPLE (object));
audioresample = GST_AUDIORESAMPLE (object);
switch (prop_id) {
 case ARG_FILTERLEN:
  g_value_set_int (value, audioresample->filter_length);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
static gboolean plugin_init (GstPlugin * plugin)
resample_init();
if (!gst_element_register (plugin, "audioresample", GST_RANK_PRIMARY,
     GST_TYPE_AUDIORESAMPLE)) {
```

```
return FALSE;
}
return TRUE;
}
GST PLUGIN DEFINE (GST VERSION MAJOR,
 GST_VERSION_MINOR,
 "audioresample",
 "Resamples audio", plugin_init, VERSION, "LGPL", GST_PACKAGE_NAME,
 GST_PACKAGE_ORIGIN)
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef AUDIORESAMPLE H
#define __AUDIORESAMPLE_H__
#include <gst/gst.h>
#include <audioresample/resample.h>
G_BEGIN_DECLS
#define GST_TYPE_AUDIORESAMPLE \
(audioresample\_get\_type())
\# define \ GST\_AUDIORESAMPLE(obj) \setminus \\
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIORESAMPLE,Audioresample))
#define GST_AUDIORESAMPLE_CLASS(klass) \
```

```
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_AUDIORESAMPLE,AudioresampleClass))
#define GST_IS_AUDIORESAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIORESAMPLE))
#define GST_IS_AUDIORESAMPLE_CLASS(klass) \
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_AUDIORESAMPLE))
typedef struct _Audioresample Audioresample;
typedef struct _AudioresampleClass AudioresampleClass;
struct Audioresample {
GstElement element;
GstPad *sinkpad,*srcpad;
gboolean passthru;
gint64 offset;
int channels;
int i_rate;
int o rate;
int filter_length;
ResampleState * resample;
};
struct _AudioresampleClass {
GstElementClass parent_class;
};
GType gst_audioresample_get_type(void);
G_END_DECLS
#endif /* __AUDIORESAMPLE_H__ */
/* GStreamer
* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>
* Copyright (C) <2003> David Schleef <ds@schleef.org>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
```

```
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
* This file was (probably) generated from
* gstvideotemplate.c,v 1.18 2005/11/14 02:13:34 thomasvs Exp
* $Id: make_filter,v 1.8 2004/04/19 22:51:57 ds Exp $
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/video/video.h>
#include <string.h>
#include <cog/cog.h>
#include <math.h>
#include <cog/cogvirtframe.h>
#define GST TYPE COGDOWNSAMPLE \
(gst_cogdownsample_get_type())
#define GST_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_COGDOWNSAMPLE,GstCogdownsample))
#define GST_COGDOWNSAMPLE_CLASS(klass) \
(G_TYPE_CHECK_CLASS_CAST((klass),GST_TYPE_COGDOWNSAMPLE,GstCogdownsampleClass))
#define GST_IS_COGDOWNSAMPLE(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_COGDOWNSAMPLE))
#define GST_IS_COGDOWNSAMPLE_CLASS(obj) \
(G_TYPE_CHECK_CLASS_TYPE((klass),GST_TYPE_COGDOWNSAMPLE))
typedef struct _GstCogdownsample GstCogdownsample;
typedef struct _GstCogdownsampleClass GstCogdownsampleClass;
struct _GstCogdownsample
GstBaseTransform base_transform;
};
```

```
struct _GstCogdownsampleClass
GstBaseTransformClass parent_class;
};
GType gst_cogdownsample_get_type (void);
enum
ARG 0
static void gst_cogdownsample_base_init (gpointer g_class);
static void gst_cogdownsample_class_init (gpointer g_class,
 gpointer class_data);
static void gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class);
static void gst_cogdownsample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_cogdownsample_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
static GstCaps *gst cogdownsample transform caps (GstBaseTransform *
 base_transform, GstPadDirection direction, GstCaps * caps);
static GstFlowReturn gst_cogdownsample_transform (GstBaseTransform *
 base transform, GstBuffer * inbuf, GstBuffer * outbuf);
static gboolean gst_cogdownsample_get_unit_size (GstBaseTransform *
 base_transform, GstCaps * caps, guint * size);
static GstStaticPadTemplate gst_cogdownsample_sink_template =
GST_STATIC_PAD_TEMPLATE ("sink",
 GST PAD SINK,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }"))
 );
static GstStaticPadTemplate gst_cogdownsample_src_template =
GST_STATIC_PAD_TEMPLATE ("src",
 GST_PAD_SRC,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS (GST_VIDEO_CAPS_YUV ("{ I420, YV12, YUY2, UYVY, AYUV }"))
 );
GType
gst_cogdownsample_get_type (void)
static GType compress_type = 0;
```

```
if (!compress_type) {
 static const GTypeInfo compress_info = {
  sizeof (GstCogdownsampleClass),
  gst_cogdownsample_base_init,
  NULL,
  gst cogdownsample class init,
  NULL,
  NULL,
  sizeof (GstCogdownsample),
  0,
  gst_cogdownsample_init,
 };
 compress_type = g_type_register_static (GST_TYPE_BASE_TRANSFORM,
    "GstCogdownsample", &compress_info, 0);
return compress type;
static void
gst_cogdownsample_base_init (gpointer g_class)
GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&gst_cogdownsample_src_template));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&gst_cogdownsample_sink_template));
gst_element_class_set_details_simple (element_class,
  "Scale down video by factor of 2", "Filter/Effect/Video",
  "Scales down video by a factor of 2", "David Schleef <ds@schleef.org>");
}
static void
gst_cogdownsample_class_init (gpointer g_class, gpointer class_data)
GObjectClass *gobject_class;
GstBaseTransformClass *base_transform_class;
gobject_class = G_OBJECT_CLASS (g_class);
base_transform_class = GST_BASE_TRANSFORM_CLASS (g_class);
gobject_class->set_property = gst_cogdownsample_set_property;
gobject_class->get_property = gst_cogdownsample_get_property;
```

```
base_transform_class->transform = gst_cogdownsample_transform;
base_transform_class->transform_caps = gst_cogdownsample_transform_caps;
base_transform_class->get_unit_size = gst_cogdownsample_get_unit_size;
}
static void
gst_cogdownsample_init (GTypeInstance * instance, gpointer g_class)
GST_DEBUG ("gst_cogdownsample_init");
static void
gst_cogdownsample_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
GstCogdownsample *src;
g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
src = GST_COGDOWNSAMPLE (object);
GST_DEBUG ("gst_cogdownsample_set_property");
switch (prop_id) {
 default:
  break;
}
static void
gst_cogdownsample_get_property (GObject * object, guint prop_id, GValue * value,
 GParamSpec * pspec)
GstCogdownsample *src;
g_return_if_fail (GST_IS_COGDOWNSAMPLE (object));
src = GST_COGDOWNSAMPLE (object);
switch (prop_id) {
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
static void
transform_value (GValue * dest, const GValue * src, GstPadDirection dir)
```

```
g_value_init (dest, G_VALUE_TYPE (src));
if (G_VALUE_HOLDS_INT (src)) {
 int x;
 x = g_value_get_int (src);
 if (dir == GST_PAD_SINK) {
  g_value_set_int (dest, x / 2);
  } else {
  g_value_set_int (dest, x * 2);
} else if (GST_VALUE_HOLDS_INT_RANGE (src)) {
 int min, max;
 min = gst_value_get_int_range_min (src);
 max = gst_value_get_int_range_max (src);
 if (dir == GST_PAD_SINK) {
  min = (min + 1) / 2;
  if (max == G\_MAXINT) \{
    max = G_MAXINT / 2;
  } else {
    \max = (\max + 1) / 2;
 } else {
  if (max > G_MAXINT / 2) {
    max = G_MAXINT;
  } else {
    max = max * 2;
  if (min > G\_MAXINT / 2) {
    min = G_MAXINT;
  } else {
    min = min * 2;
  }
  }
 gst_value_set_int_range (dest, min, max);
} else {
 /* FIXME */
 g_warning ("case not handled");
 g_value_set_int (dest, 100);
}
static GstCaps *
gst_cogdownsample_transform_caps (GstBaseTransform * base_transform,
 GstPadDirection direction, GstCaps * caps)
```

```
int i;
GstStructure *structure;
GValue new_value = { 0 };
const GValue *value;
caps = gst_caps_copy (caps);
for (i = 0; i < gst\_caps\_get\_size (caps); i++) {
 structure = gst_caps_get_structure (caps, i);
 value = gst_structure_get_value (structure, "width");
 transform_value (&new_value, value, direction);
 gst_structure_set_value (structure, "width", &new_value);
 g_value_unset (&new_value);
 value = gst_structure_get_value (structure, "height");
 transform_value (&new_value, value, direction);
 gst_structure_set_value (structure, "height", &new_value);
 g_value_unset (&new_value);
return caps;
}
static gboolean
gst_cogdownsample_get_unit_size (GstBaseTransform * base_transform,
 GstCaps * caps, guint * size)
int width, height;
uint32_t format;
gst_structure_get_fourcc (gst_caps_get_structure (caps, 0),
  "format", &format);
gst_structure_get_int (gst_caps_get_structure (caps, 0), "width", &width);
gst_structure_get_int (gst_caps_get_structure (caps, 0), "height", &height);
switch (format) {
 case GST_MAKE_FOURCC ('I', '4', '2', '0'):
 case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
  *size = width * height * 3 / 2;
  break;
 case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
 case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
  *size = width * height * 2;
  break;
 case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
  *size = width * height * 4;
  break;
```

```
default:
  g_assert_not_reached();
return TRUE;
static GstFlowReturn
gst_cogdownsample_transform (GstBaseTransform * base_transform,
 GstBuffer * inbuf, GstBuffer * outbuf)
GstCogdownsample *compress;
CogFrame *outframe;
int width, height;
uint32_t format;
CogFrame *frame;
g return val if fail (GST IS COGDOWNSAMPLE (base transform), GST FLOW ERROR);
compress = GST_COGDOWNSAMPLE (base_transform);
gst_structure_get_fourcc (gst_caps_get_structure (inbuf->caps, 0),
  "format", &format);
gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
  "width", &width);
gst_structure_get_int (gst_caps_get_structure (inbuf->caps, 0),
  "height", &height);
switch (format) {
 case GST_MAKE_FOURCC ('I', '4', '2', '0'):
  frame = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (inbuf),
     width, height);
  outframe = cog_frame_new_from_data_I420 (GST_BUFFER_DATA (outbuf),
     width /2, height /2);
  break;
 case GST_MAKE_FOURCC ('Y', 'V', '1', '2'):
  frame = cog\_frame\_new\_from\_data\_YV12 (GST\_BUFFER\_DATA (inbuf),
     width, height);
  outframe = cog_frame_new_from_data_YV12 (GST_BUFFER_DATA (outbuf),
     width /2, height /2);
  break;
 case GST_MAKE_FOURCC ('Y', 'U', 'Y', '2'):
  frame = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (inbuf),
     width, height);
  outframe = cog_frame_new_from_data_YUY2 (GST_BUFFER_DATA (outbuf),
     width /2, height /2);
  break;
 case GST_MAKE_FOURCC ('U', 'Y', 'V', 'Y'):
  frame = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (inbuf),
```

```
width, height);
  outframe = cog_frame_new_from_data_UYVY (GST_BUFFER_DATA (outbuf),
     width /2, height /2);
  break;
 case GST_MAKE_FOURCC ('A', 'Y', 'U', 'V'):
  frame = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (inbuf),
     width, height);
  outframe = cog_frame_new_from_data_AYUV (GST_BUFFER_DATA (outbuf),
     width /2, height /2);
  break:
 default:
  g_assert_not_reached();
  return GST FLOW ERROR;
frame = cog_virt_frame_new_unpack (frame);
frame = cog_virt_frame_new_horiz_downsample (frame, 3);
frame = cog_virt_frame_new_vert_downsample (frame, 2);
switch (format) {
 case GST MAKE FOURCC ('Y', 'U', 'Y', '2'):
  frame = cog_virt_frame_new_pack_YUY2 (frame);
  break;
 case GST MAKE FOURCC ('U', 'Y', 'V', 'Y'):
  frame = cog_virt_frame_new_pack_UYVY (frame);
  break:
 case GST MAKE FOURCC ('A', 'Y', 'U', 'V'):
  frame = cog_virt_frame_new_pack_AYUV (frame);
  break:
 default:
  break;
}
cog_virt_frame_render (frame, outframe);
cog_frame_unref (frame);
cog_frame_unref (outframe);
return GST_FLOW_OK;
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplex.cc: gstreamer mplex wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
```

```
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
/**
* SECTION:element-mplex
* @see also: mpeg2enc
* This element is an audio/video multiplexer for MPEG-1/2 video streams
* and (un)compressed audio streams such as AC3, MPEG layer I/II/III.
* It is based on the <uli>k url="http://mjpeg.sourceforge.net/">mjpegtools</ulink> library.
* Documentation on creating MPEG videos in general can be found in the
* <ulink url="https://sourceforge.net/docman/display_doc.php?docid=3456&group_id=5776">MJPEG
Howto</ulink>
* and the man-page of the mplex tool documents the properties of this element,
* which are shared with the mplex tool.
* <refsect2>
* <title>Example pipeline</title>
* gst-launch -v videotestsrc num-buffers=1000! mpeg2enc! mplex! filesink location=videotestsrc.mpg
* ] This example pipeline will encode a test video source to an
* MPEG1 elementary stream and multiplexes this to an MPEG system stream.
* <para>
* If several streams are being multiplexed, there should (as usual) be
* a queue in each stream, and due to mplex' buffering the capacities of these
* may have to be set to a few times the default settings to prevent the
* pipeline stalling.
* </para>
* </refsect2>
*/
#ifdef HAVE CONFIG H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
```

```
#include "gstmplexoutputstream.hh"
#include "gstmplexibitstream.hh"
#include "gstmplexjob.hh"
GST_DEBUG_CATEGORY (mplex_debug);
static GstStaticPadTemplate src_templ = GST_STATIC_PAD_TEMPLATE ("src",
 GST_PAD_SRC,
 GST_PAD_ALWAYS,
 GST_STATIC_CAPS ("video/mpeg, systemstream = (boolean) true ")
 );
static GstStaticPadTemplate video_sink_templ =
GST_STATIC_PAD_TEMPLATE ("video_%d",
 GST_PAD_SINK,
 GST_PAD_REQUEST,
 GST_STATIC_CAPS ("video/mpeg, "
    "mpegversion = (int) \{1, 2\},"
    "systemstream = (boolean) false, "
    "width = (int) [ 16, 4096 ], "
    "height = (int) [ 16, 4096 ], framerate = (fraction) [ 0, MAX ]")
 );
#define COMMON AUDIO CAPS \
"channels = (int) [1, 8], "
"rate = (int) [ 8000, 96000 ]"
static GstStaticPadTemplate audio_sink_templ =
 GST_STATIC_PAD_TEMPLATE ("audio_%d",
 GST PAD SINK,
 GST_PAD_REQUEST,
 GST_STATIC_CAPS ("audio/mpeg, "
    "mpegversion = (int) 1, "
    "layer = (int) [1, 3],"
    COMMON_AUDIO_CAPS "; "
    "audio/x-ac3, "
    COMMON_AUDIO_CAPS "; "
    "audio/x-dts; "
    "audio/x-raw-int, "
    "endianness = (int) BIG_ENDIAN, "
    "signed = (boolean) TRUE, "
    "width = (int) { 16, 20, 24 }, "
    "depth = (int) \{ 16, 20, 24 \},"
    "rate = (int) { 48000, 96000 }, " "channels = (int) [ 1, 6 ]")
 );
/* FIXME: subtitles */
```

```
static void gst_mplex_finalize (GObject * object);
static void gst_mplex_reset (GstMplex * mplex);
static void gst_mplex_loop (GstMplex * mplex);
static GstPad *gst_mplex_request_new_pad (GstElement * element,
 GstPadTemplate * templ, const gchar * name);
static void gst_mplex_release_pad (GstElement * element, GstPad * pad);
static gboolean gst mplex src activate push (GstPad * pad, gboolean active);
static GstStateChangeReturn gst_mplex_change_state (GstElement * element,
 GstStateChange transition);
static void gst_mplex_get_property (GObject * object,
 guint prop_id, GValue * value, GParamSpec * pspec);
static void gst mplex set property (GObject * object,
 guint prop_id, const GValue * value, GParamSpec * pspec);
GST_BOILERPLATE (GstMplex, gst_mplex, GstElement, GST_TYPE_ELEMENT);
static void
gst_mplex_base_init (gpointer klass)
GstElementClass *element class = GST ELEMENT CLASS (klass);
gst_element_class_set_details_simple (element_class,
  "mplex video multiplexer", "Codec/Muxer",
  "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
  "Andrew Stevens <andrew.stevens@nexgo.de>\n"
  "Ronald Bultje <rbultje@ronald.bitfreak.net>\n"
  "Mark Nauwelaerts <mnauw@users.sourceforge.net>");
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&src_templ));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&video_sink_templ));
gst_element_class_add_pad_template (element_class,
  gst_static_pad_template_get (&audio_sink_templ));
}
static void
gst_mplex_class_init (GstMplexClass * klass)
GObjectClass *object_class = G_OBJECT_CLASS (klass);
GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
GST_DEBUG_CATEGORY_INIT (mplex_debug, "mplex", 0, "MPEG video/audio muxer");
object_class->set_property = gst_mplex_set_property;
object_class->get_property = gst_mplex_get_property;
```

```
/* register properties */
GstMplexJob::initProperties (object_class);
object_class->finalize = GST_DEBUG_FUNCPTR (gst_mplex_finalize);
element_class->change_state = GST_DEBUG_FUNCPTR (gst_mplex_change_state);
element_class->request_new_pad =
  GST_DEBUG_FUNCPTR (gst_mplex_request_new_pad);
element_class->release_pad = GST_DEBUG_FUNCPTR (gst_mplex_release_pad);
}
static void
gst_mplex_finalize (GObject * object)
GstMplex *mplex = GST_MPLEX (object);
GSList *walk;
/* release all pads */
walk = mplex->pads;
while (walk) {
 GstMplexPad *mpad = (GstMplexPad *) walk->data;
 gst_object_unref (mpad->pad);
 mpad->pad = NULL;
 walk = walk->next;
}
/* clean up what's left of them */
gst_mplex_reset (mplex);
/* ... and of the rest */
delete mplex->job;
g_mutex_free (mplex->tlock);
G_OBJECT_CLASS (parent_class)->finalize (object);
}
static void
gst_mplex_init (GstMplex * mplex, GstMplexClass * g_class)
GstElement *element = GST_ELEMENT (mplex);
GstElementClass *element_class = GST_ELEMENT_CLASS (g_class);
mplex->srcpad =
  gst_pad_new_from_template (gst_element_class_get_pad_template
  (element_class, "src"), "src");
gst_element_add_pad (element, mplex->srcpad);
```

```
gst_pad_use_fixed_caps (mplex->srcpad);
gst_pad_set_activatepush_function (mplex->srcpad,
  GST_DEBUG_FUNCPTR (gst_mplex_src_activate_push));
mplex->job = new GstMplexJob ();
mplex->num\_apads = 0;
mplex->num\_vpads = 0;
mplex->tlock = g_mutex_new ();
gst_mplex_reset (mplex);
static void
gst_mplex_reset (GstMplex * mplex)
GSList *walk;
GSList *nlist = NULL;
mplex->eos = FALSE;
mplex->srcresult = GST_FLOW_CUSTOM_SUCCESS;
/* reset existing streams */
walk = mplex->pads;
while (walk != NULL) {
 GstMplexPad *mpad;
 mpad = (GstMplexPad *) walk->data;
 mpad->needed = 0;
 mpad->eos = FALSE;
 gst_adapter_clear (mpad->adapter);
 if (mpad->bs) {
  delete mpad->bs;
  mpad->bs = NULL;
 }
 if (!mpad->pad) {
  g_cond_free (mpad->cond);
  g_object_unref (mpad->adapter);
  g_free (mpad);
 } else
  nlist = g_slist_append (nlist, mpad);
 walk = walk->next;
}
```

```
g_slist_free (mplex->pads);
mplex->pads = nlist;
/* clear mplex stuff */
/* clean up stream settings */
while (!mplex->job->streams.empty ()) {
 delete mplex->job->streams.back ();
 mplex->job->streams.pop_back ();
while (!mplex->job->video_param.empty ()) {
 delete mplex->job->video_param.back ();
 mplex->job->video_param.pop_back ();
while (!mplex->job->lpcm_param.empty ()) {
 delete mplex->job->lpcm_param.back ();
 mplex->job->lpcm_param.pop_back ();
mplex->job->audio tracks = 0;
mplex->job->video_tracks = 0;
mplex->job->lpcm_tracks = 0;
static gboolean
gst_mplex_setcaps (GstPad * pad, GstCaps * caps)
GstMplex *mplex;
const gchar *mime;
GstStructure *structure;
StreamKind type;
JobStream *jobstream;
GstMplexIBitStream *inputstream;
GstMplexPad *mpad;
GstCaps *othercaps;
gboolean ret = TRUE;
mplex = GST_MPLEX (GST_PAD_PARENT (pad));
/* does not go well to negotiate when started */
if (mplex->srcresult != GST_FLOW_CUSTOM_SUCCESS)
 goto refuse_renegotiation;
/* since muxer does not really check much ... */
othercaps = gst_caps_intersect (caps, gst_pad_get_pad_template_caps (pad));
if (othercaps)
 gst_caps_unref (othercaps);
```

```
else
 goto refuse_caps;
/* set the fixed template caps on the srcpad, should accept without objection */
othercaps = gst_caps_copy (gst_pad_get_pad_template_caps (mplex->srcpad));
ret = gst_pad_set_caps (mplex->srcpad, othercaps);
gst caps unref (othercaps);
if (!ret)
 goto refuse_caps;
structure = gst_caps_get_structure (caps, 0);
mime = gst_structure_get_name (structure);
if (!strcmp (mime, "video/mpeg")) { /* video */
 VideoParams *params;
 type = MPEG_VIDEO;
 if (mplex->job->bufsize)
  params = VideoParams::Checked (mplex->job->bufsize);
  params = VideoParams::Default (mplex->job->mux format);
 /* set standard values if forced by the selected profile */
 if (params->Force (mplex->job->mux_format))
  GST WARNING OBJECT (mplex,
    "overriding non-standard option due to selected profile");
 mplex->job->video_param.push_back (params);
 mplex->job->video_tracks++;
                    /* audio */
} else {
 if (!strcmp (mime, "audio/mpeg")) {
  type = MPEG_AUDIO;
 } else if (!strcmp (mime, "audio/x-ac3")) {
  type = AC3\_AUDIO;
 } else if (!strcmp (mime, "audio/x-dts")) {
  type = DTS_AUDIO;
 } else if (!strcmp (mime, "audio/x-raw-int")) {
  LpcmParams *params;
  gint bits, chans, rate;
  gboolean result = TRUE;
  type = LPCM\_AUDIO;
  /* set LPCM params */
  result &= gst_structure_get_int (structure, "depth", &bits);
  result &= gst_structure_get_int (structure, "rate", &rate);
  result &= gst_structure_get_int (structure, "channels", &chans);
  if (!result)
   goto refuse_caps;
```

```
params = LpcmParams::Checked (rate, chans, bits);
  mplex->job->lpcm_param.push_back (params);
  mplex->job->lpcm_tracks++;
 } else
  goto refuse_caps;
 mplex->job->audio_tracks++;
}
mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_val_if_fail (mpad, FALSE);
inputstream = new GstMplexIBitStream (mpad);
mpad->bs = inputstream;
jobstream = new JobStream (inputstream, type);
mplex->job->streams.push_back (jobstream);
return TRUE:
refuse caps:
 GST_WARNING_OBJECT (mplex, "refused caps %" GST_PTR_FORMAT, caps);
 /* undo if we were a bit too fast/confident */
 if (GST PAD CAPS (mplex->srcpad))
  gst_pad_set_caps (mplex->srcpad, NULL);
 return FALSE;
refuse_renegotiation:
 GST_WARNING_OBJECT (mplex, "already started; "
    "refused (re)negotiation (to %" GST_PTR_FORMAT ")", caps);
 return FALSE;
}
static void
gst_mplex_loop (GstMplex * mplex)
GstMplexOutputStream *out = NULL;
Multiplexor *mux = NULL;
GSList *walk;
/* do not try to resume muxing after it finished
 * this can be relevant mainly/only in case of forced state change */
```

```
if (mplex->eos)
 goto eos;
/* inform downstream about what's coming */
gst_pad_push_event (mplex->srcpad, gst_event_new_new_segment (FALSE, 1.0,
     GST_FORMAT_BYTES, 0, -1, 0));
/* hm (!) each inputstream really needs an initial read
 * so that all is internally in the proper state */
walk = mplex->pads;
while (walk != NULL) {
 GstMplexPad *mpad;
 mpad = (GstMplexPad *) walk->data;
 mpad->bs->ReadBuffer();
 walk = walk->next;
}
/* create new multiplexer with inputs/output */
out = new GstMplexOutputStream (mplex, mplex->srcpad);
#if GST_MJPEGTOOLS_API >= 10900
mux = new Multiplexor (*mplex->job, *out, NULL);
#else
mux = new Multiplexor (*mplex->job, *out);
#endif
if (mux) {
 mux->Multiplex ();
 delete mux;
 delete out;
 /* if not well and truly eos, something strange happened */
 if (!mplex->eos) {
  GST_ERROR_OBJECT (mplex, "muxing task ended without being eos");
  /* notify there is no point in collecting any more */
  GST_MPLEX_MUTEX_LOCK (mplex);
  mplex->srcresult = GST_FLOW_ERROR;
  GST_MPLEX_SIGNAL_ALL (mplex);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
 } else
  goto eos;
} else {
 GST_WARNING_OBJECT (mplex, "failed to create Multiplexor");
/* fall-through */
done:
```

```
/* no need to run wildly, stopped elsewhere, e.g. state change */
 GST_DEBUG_OBJECT (mplex, "pausing muxing task");
 gst_pad_pause_task (mplex->srcpad);
 return;
}
eos:
 GST_DEBUG_OBJECT (mplex, "encoding task reached eos");
 goto done;
}
static gboolean
gst_mplex_sink_event (GstPad * sinkpad, GstEvent * event)
GstMplex *mplex;
GstMplexPad *mpad;
gboolean result = TRUE;
mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
g_return_val_if_fail (mpad, FALSE);
switch (GST_EVENT_TYPE (event)) {
 case GST_EVENT_FLUSH_START:
  /* forward event */
  gst_pad_event_default (sinkpad, event);
  /* now unblock the chain function */
  GST_MPLEX_MUTEX_LOCK (mplex);
  mplex->srcresult = GST_FLOW_WRONG_STATE;
  GST_MPLEX_SIGNAL (mplex, mpad);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  /* no way to pause/restart loop task */
  goto done;
 case GST_EVENT_FLUSH_STOP:
  /* forward event */
  gst_pad_event_default (sinkpad, event);
  /* clear state and resume */
  GST_MPLEX_MUTEX_LOCK (mplex);
  gst_adapter_clear (mpad->adapter);
  mplex->srcresult = GST_FLOW_OK;
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  goto done;
 case GST_EVENT_NEWSEGMENT:
```

```
/* eat segments; we make our own (byte)stream */
  gst_event_unref (event);
  goto done;
  case GST_EVENT_EOS:
  /* inform this pad that it can stop now */
  GST_MPLEX_MUTEX_LOCK (mplex);
  mpad->eos = TRUE;
  GST_MPLEX_SIGNAL (mplex, mpad);
  GST_MPLEX_MUTEX_UNLOCK (mplex);
  /* eat this event for now, task will send eos when finished */
  gst_event_unref (event);
  goto done;
  default:
  /* for a serialized event, wait until earlier data is gone,
   * though this is no guarantee as to when task is done with it.
   * Only wait if loop has been started already */
  if (GST_EVENT_IS_SERIALIZED (event)) {
   GST_MPLEX_MUTEX_LOCK (mplex);
   while (mplex->srcresult == GST_FLOW_OK && !mpad->needed)
     GST MPLEX WAIT (mplex, mpad);
   GST_MPLEX_MUTEX_UNLOCK (mplex);
  }
  break;
}
result = gst_pad_event_default (sinkpad, event);
done:
return result;
}
/* starts task if conditions are right for it
* must be called with mutex lock held */
static void
gst_mplex_start_task (GstMplex * mplex)
/* start task to create multiplexor and start muxing */
if (G_UNLIKELY (mplex->srcresult == GST_FLOW_CUSTOM_SUCCESS)
  && mplex->job->video_tracks == mplex->num_vpads
  && mplex->job->audio_tracks == mplex->num_apads) {
 gst_pad_start_task (mplex->srcpad, (GstTaskFunction) gst_mplex_loop, mplex);
 mplex->srcresult = GST_FLOW_OK;
}
}
static GstFlowReturn
gst_mplex_chain (GstPad * sinkpad, GstBuffer * buffer)
```

```
GstMplex *mplex;
GstMplexPad *mpad;
mplex = (GstMplex *) (GST_PAD_PARENT (sinkpad));
mpad = (GstMplexPad *) gst_pad_get_element_private (sinkpad);
g_return_val_if_fail (mpad, GST_FLOW_ERROR);
/* check if pad were properly negotiated and set up */
if (G_UNLIKELY (!mpad->bs)) {
 GST_ELEMENT_ERROR (mplex, CORE, NEGOTIATION, (NULL),
   ("input pad has not been set up prior to chain function"));
 return GST FLOW NOT NEGOTIATED;
}
GST_MPLEX_MUTEX_LOCK (mplex);
gst_mplex_start_task (mplex);
if (G_UNLIKELY (mpad->eos))
 goto eos;
if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
 goto ignore;
gst_adapter_push (mpad->adapter, buffer);
buffer = NULL;
while (gst_adapter_available (mpad->adapter) >= mpad->needed) {
 GST_MPLEX_SIGNAL (mplex, mpad);
 GST_MPLEX_WAIT (mplex, mpad);
 /* may have become flushing or in error */
 if (G_UNLIKELY (mplex->srcresult != GST_FLOW_OK))
  goto ignore;
 /* or been removed */
 if (G_UNLIKELY (mpad->eos))
  goto eos;
}
GST_MPLEX_MUTEX_UNLOCK (mplex);
return GST_FLOW_OK;
/* special cases */
eos:
 GST_DEBUG_OBJECT (mplex, "ignoring buffer at end-of-stream");
 GST_MPLEX_MUTEX_UNLOCK (mplex);
```

```
gst_buffer_unref (buffer);
 return GST_FLOW_UNEXPECTED;
ignore:
{
 GstFlowReturn ret = mplex->srcresult;
 GST_DEBUG_OBJECT (mplex, "ignoring buffer because src task encountered %s",
   gst_flow_get_name (ret));
 GST MPLEX MUTEX UNLOCK (mplex);
 if (buffer)
  gst_buffer_unref (buffer);
 return ret;
}
}
static GstPad *
gst_mplex_request_new_pad (GstElement * element,
 GstPadTemplate * templ, const gchar * name)
GstElementClass *klass = GST_ELEMENT_GET_CLASS (element);
GstMplex *mplex = GST_MPLEX (element);
gchar *padname;
GstPad *newpad;
GstMplexPad *mpad;
if (templ == gst_element_class_get_pad_template (klass, "audio_%d")) {
 GST_DEBUG_OBJECT (mplex, "request pad audio %d", mplex->num_apads);
 padname = g_strdup_printf ("audio_%d", mplex->num_apads++);
} else if (templ == gst_element_class_get_pad_template (klass, "video_%d")) {
 GST_DEBUG_OBJECT (mplex, "request pad video %d", mplex->num_vpads);
 padname = g_strdup_printf ("video_%d", mplex->num_vpads++);
} else {
 GST_WARNING_OBJECT (mplex, "This is not our template!");
 return NULL;
}
newpad = gst_pad_new_from_template (templ, padname);
g_free (padname);
mpad = g_new0 (GstMplexPad, 1);
mpad->adapter = gst_adapter_new ();
mpad->cond = g_cond_new ();
gst_object_ref (newpad);
mpad->pad = newpad;
gst_pad_set_setcaps_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_setcaps));
```

```
gst_pad_set_chain_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_chain));
gst_pad_set_event_function (newpad, GST_DEBUG_FUNCPTR (gst_mplex_sink_event));
gst_pad_set_element_private (newpad, mpad);
gst_element_add_pad (element, newpad);
mplex->pads = g_slist_append (mplex->pads, mpad);
return newpad;
}
static void
gst_mplex_release_pad (GstElement * element, GstPad * pad)
GstMplex *mplex = GST_MPLEX (element);
GstMplexPad *mpad;
g_return_if_fail (pad);
mpad = (GstMplexPad *) gst_pad_get_element_private (pad);
g_return_if_fail (mpad);
if (gst_element_remove_pad (element, pad)) {
 gchar *padname;
 GST_MPLEX_MUTEX_LOCK (mplex);
 mpad->eos = TRUE;
 gst_object_unref (mpad->pad);
 mpad->pad = NULL;
 /* wake up if waiting on this pad */
 GST_MPLEX_SIGNAL (mplex, mpad);
 padname = gst_object_get_name (GST_OBJECT (pad));
 if (strstr (padname, "audio")) {
  mplex->num_apads--;
 } else {
  mplex->num_vpads--;
 g_free (padname);
 /* may now be up to us to get things going */
 gst_mplex_start_task (mplex);
 GST_MPLEX_MUTEX_UNLOCK (mplex);
}
}
static void
gst_mplex_get_property (GObject * object,
 guint prop_id, GValue * value, GParamSpec * pspec)
GST_MPLEX (object)->job->getProperty (prop_id, value);
```

```
}
static void
gst_mplex_set_property (GObject * object,
 guint prop_id, const GValue * value, GParamSpec * pspec)
GST_MPLEX (object)->job->setProperty (prop_id, value);
}
static gboolean
gst_mplex_src_activate_push (GstPad * pad, gboolean active)
gboolean result = TRUE;
GstMplex *mplex;
mplex = GST_MPLEX (GST_PAD_PARENT (pad));
if (active) {
 /* chain will start task once all streams have been setup */
 /* end the muxing loop by forcing eos and unblock chains */
 GST_MPLEX_MUTEX_LOCK (mplex);
 mplex->eos = TRUE;
 mplex->srcresult = GST_FLOW_WRONG_STATE;
 GST_MPLEX_SIGNAL_ALL (mplex);
 GST_MPLEX_MUTEX_UNLOCK (mplex);
 /* muxing loop should have ended now and can be joined */
 result = gst_pad_stop_task (pad);
return result;
static GstStateChangeReturn
gst_mplex_change_state (GstElement * element, GstStateChange transition)
GstMplex *mplex = GST_MPLEX (element);
GstStateChangeReturn ret;
switch (transition) {
 case GST_STATE_CHANGE_NULL_TO_READY:
  break;
 case GST_STATE_CHANGE_READY_TO_PAUSED:
  break;
 case GST_STATE_CHANGE_PAUSED_TO_PLAYING:
  break;
 default:
```

```
break;
}
ret = GST_ELEMENT_CLASS (parent_class)->change_state (element, transition);
if (ret == GST_STATE_CHANGE_FAILURE)
 goto done;
switch (transition) {
 case GST_STATE_CHANGE_PAUSED_TO_READY:
  gst_mplex_reset (mplex);
  break;
 default:
  break:
}
done:
return ret;
#ifndef GST_DISABLE_GST_DEBUG
static mjpeg_log_handler_t old_handler = NULL;
/* note that this will affect all mjpegtools elements/threads */
static void
gst_mplex_log_callback (log_level_t level, const char *message)
GstDebugLevel gst_level;
#if GST MJPEGTOOLS API >= 10900
static const gint mjpeg_log_error = mjpeg_loglev_t ("error");
static const gint mjpeg_log_warn = mjpeg_loglev_t ("warn");
static const gint mjpeg_log_info = mjpeg_loglev_t ("info");
static const gint mjpeg_log_debug = mjpeg_loglev_t ("debug");
#else
static const gint mjpeg_log_error = LOG_ERROR;
static const gint mjpeg_log_warn = LOG_WARN;
static const gint mjpeg_log_info = LOG_INFO;
static const gint mjpeg_log_debug = LOG_DEBUG;
#endif
if (level == mjpeg_log_error) {
 gst_level = GST_LEVEL_ERROR;
} else if (level == mjpeg_log_warn) {
 gst_level = GST_LEVEL_WARNING;
} else if (level == mjpeg_log_info) {
 gst_level = GST_LEVEL_INFO;
} else if (level == mjpeg_log_debug) {
```

```
gst_level = GST_LEVEL_DEBUG;
} else {
 gst_level = GST_LEVEL_INFO;
}
/* message could have a % in it, do not segfault in such case */
gst debug log (mplex debug, gst level, "", "", 0, NULL, "%s", message);
/* chain up to the old handler;
 * this could actually be a handler from another mipegtools based
 * gstreamer element; in which case messages can come out double or from
 * the wrong element ... */
old handler (level, message);
#endif
static gboolean
plugin init (GstPlugin * plugin)
#ifndef GST_DISABLE_GST_DEBUG
old_handler = mjpeg_log_set_handler (gst_mplex_log_callback);
g_assert (old_handler != NULL);
#endif
/* in any case, we do not want default handler output */
mjpeg_default_handler_verbosity (0);
return gst_element_register (plugin, "mplex", GST_RANK_NONE, GST_TYPE_MPLEX);
}
GST_PLUGIN_DEFINE (GST_VERSION_MAJOR,
 GST_VERSION_MINOR,
 "mplex",
 "High-quality MPEG/DVD/SVCD/VCD video/audio multiplexer",
 plugin init, VERSION, "GPL", GST PACKAGE NAME, GST PACKAGE ORIGIN)
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* gstmplex.hh: gstreamer mplex wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
```

```
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef __GST_MPLEX_H__
#define __GST_MPLEX_H__
#include <gst/gst.h>
#include <gst/base/gstadapter.h>
#include <multiplexor.hpp>
#include "gstmplexibitstream.hh"
#include "gstmplexjob.hh"
G_BEGIN_DECLS
\hbox{\#define GST\_TYPE\_MPLEX} \setminus
(gst_mplex_get_type ())
#define GST MPLEX(obj) \
(G_TYPE_CHECK_INSTANCE_CAST ((obj), GST_TYPE_MPLEX, GstMplex))
#define GST_MPLEX_CLASS(klass) \
(G TYPE CHECK CLASS CAST ((klass), GST TYPE MPLEX, GstMplex))
#define GST_IS_MPLEX(obj) \
(G_TYPE_CHECK_INSTANCE_TYPE ((obj), GST_TYPE_MPLEX))
#define GST IS MPLEX CLASS(obj) \
(G\_TYPE\_CHECK\_CLASS\_TYPE\ ((klass),\ GST\_TYPE\_MPLEX))
GST_DEBUG_CATEGORY_EXTERN (mplex_debug);
#define GST_CAT_DEFAULT mplex_debug
#define GST_MPLEX_MUTEX_LOCK(m) G_STMT_START {
GST_LOG_OBJECT (m, "locking tlock from thread %p", g_thread_self ()); \
g_mutex_lock ((m)->tlock);
GST\_LOG\_OBJECT \ (m, "locked \ tlock \ from \ thread \ \%p", \ g\_thread\_self \ ()); \ \setminus \\
} G_STMT_END
#define GST_MPLEX_MUTEX_UNLOCK(m) G_STMT_START {
GST_LOG_OBJECT (m, "unlocking tlock from thread %p", g_thread_self ()); \
g_mutex_unlock ((m)->tlock);
} G_STMT_END
#define GST_MPLEX_WAIT(m, p) G_STMT_START {
GST_LOG_OBJECT (m, "thread %p waiting", g_thread_self ());
g_cond_wait ((p)->cond, (m)->tlock);
} G_STMT_END
```

```
#define GST_MPLEX_SIGNAL(m, p) G_STMT_START {
GST_LOG_OBJECT (m, "signalling from thread %p", g_thread_self ()); \
g_cond_signal ((p)->cond);
} G_STMT_END
#define GST_MPLEX_SIGNAL_ALL(m) G_STMT_START {
GST_LOG_OBJECT (m, "signalling all from thread %p", g_thread_self ()); \
GSList *walk = m->pads;
while (walk) {
 GST_MPLEX_SIGNAL (m, (GstMplexPad *) walk->data);
 walk = walk->next;
} G_STMT_END
typedef struct _GstMplexPad
/* associated pad */
GstPad *pad;
/* with mplex TLOCK */
/* adapter collecting buffers for this pad */
GstAdapter *adapter;
/* no more to expect on this pad */
gboolean eos;
/* signals counterpart thread to have a look */
GCond *cond;
/* amount needed by mplex on this stream */
guint needed;
/* bitstream for this pad */
GstMplexIBitStream *bs;
} GstMplexPad;
typedef struct _GstMplex {
GstElement parent;
/* pads */
GSList *pads;
GstPad *srcpad;
guint num_apads, num_vpads;
/* options wrapper */
GstMplexJob *job;
/* lock for syncing */
GMutex *tlock;
/* with TLOCK */
/* muxer writer generated eos */
gboolean eos;
/* flowreturn obtained by muxer task */
```

```
GstFlowReturn srcresult;
} GstMplex;
typedef struct _GstMplexClass {
GstElementClass parent;
} GstMplexClass;
GType gst_mplex_get_type (void);
G END DECLS
#endif /* __GST_MPLEX_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
#include "gstmplexibitstream.hh"
* Class init/exit functions.
*/
GstMplexIBitStream::GstMplexIBitStream (GstMplexPad * _data, guint buf_size):
```

```
IBitStream ()
mpad = _data;
mplex = GST_MPLEX (GST_PAD_PARENT (mpad->pad));
eos = FALSE;
SetBufSize (buf size);
eobs = false;
byteidx = 0;
}
* Read data.
size t
 GstMplexIBitStream::ReadStreamBytes (uint8_t * buf, size_t size =
 BUFFER SIZE)
guint8 *data;
GST_MPLEX_MUTEX_LOCK (mplex);
GST_DEBUG_OBJECT (mplex, "needing %d bytes", (guint) size);
while (gst_adapter_available (mpad->adapter) < size
  && !mplex->eos && !mpad->eos) {
 mpad->needed = size;
 GST_MPLEX_SIGNAL (mplex, mpad);
 GST_MPLEX_WAIT (mplex, mpad);
}
mpad->needed = 0;
size = MIN (size, gst_adapter_available (mpad->adapter));
if (size) {
 data = gst_adapter_take (mpad->adapter, size);
 memcpy (buf, data, size);
 g_free (data);
GST_MPLEX_MUTEX_UNLOCK (mplex);
return size;
}
* Are we at EOS?
```

```
bool GstMplexIBitStream::EndOfStream (void)
return eos;
bool GstMplexIBitStream::ReadBuffer ()
return ReadIntoBuffer (BUFFER_SIZE);
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexibitstream.hh: gstreamer/mplex input bitstream wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
#ifndef __GST_MPLEXIBITSTREAM_H__
#define GST MPLEXIBITSTREAM H
#include <gst/gst.h>
#include <mjpeg_types.h>
#include <bits.hpp>
#include "gstmplex.hh"
/* forward declaration; break circular referencing */
typedef struct _GstMplex GstMplex;
typedef struct _GstMplexPad GstMplexPad;
class GstMplexIBitStream : public IBitStream {
GstMplexIBitStream (GstMplexPad *pad, guint buf_size = BUFFER_SIZE);
```

```
bool ReadBuffer ();
protected:
/* read data */
size_t ReadStreamBytes (uint8_t *buf, size_t number);
/* are we at EOS? */
bool EndOfStream (void);
private:
GstMplex *mplex;
GstMplexPad *mpad;
gboolean eos;
};
#endif /* __GST_MPLEXIBITSTREAM_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
#ifdef HAVE_CONFIG_H
#include "config.h"
#endif
#include "gstmplexjob.hh"
enum
ARG_0,
ARG_FORMAT,
```

```
ARG_MUX_BITRATE,
ARG_VBR,
ARG_SYSTEM_HEADERS,
ARG_SPLIT_SEQUENCE,
ARG_SEGMENT_SIZE,
ARG_PACKETS_PER_PACK,
ARG_SECTOR_SIZE,
ARG_BUFSIZE
  /* FILL ME */
};
* Property enumeration types.
#define GST_TYPE_MPLEX_FORMAT \
(gst_mplex_format_get_type ())
static GType
gst_mplex_format_get_type (void)
static GType mplex_format_type = 0;
if (!mplex_format_type) {
 static const GEnumValue mplex_formats[] = {
  {0, "Generic MPEG-1", "0"},
  {1, "Standard VCD", "1"},
  {2, "User VCD", "2"},
  {3, "Generic MPEG-2", "3"},
  {4, "Standard SVCD", "4"},
  {5, "User SVCD", "5"},
  {6, "VCD Stills sequences", "6"},
  {7, "SVCD Stills sequences", "7"},
  {8, "DVD MPEG-2 for dvdauthor", "8"},
  {9, "DVD MPEG-2", "9"},
  {0, NULL, NULL},
 };
 mplex_format_type =
   g_enum_register_static ("GstMplexFormat", mplex_formats);
}
return mplex_format_type;
}
* Class init functions.
```

```
GstMplexJob::GstMplexJob (void):
MultiplexJob ()
/* blabla */
bufsize = 0;
}
* GObject properties.
void
GstMplexJob::initProperties (GObjectClass * klass)
/* encoding profile */
g_object_class_install_property (klass, ARG_FORMAT,
  g param spec enum ("format", "Format", "Encoding profile format",
     GST_TYPE_MPLEX_FORMAT, 0,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
/* total stream datarate. Normally, this shouldn't be needed, but
 * some DVD/VCD/SVCD players really need strict values to handle
 * the created files correctly. */
g_object_class_install_property (klass, ARG_MUX_BITRATE,
  g_param_spec_int ("mux-bitrate", "Mux. bitrate",
     "Bitrate of output stream in kbps (0 = autodetect)",
     0, 15 * 1024, 0.
     (GParamFlags) (G PARAM READWRITE | G PARAM STATIC STRINGS)));
/* override decode buffer size otherwise determined by format */
g_object_class_install_property (klass, ARG_BUFSIZE,
  g_param_spec_int ("bufsize", "Decoder buf. size",
     "Target decoders video buffer size (kB)"
     "[default determined by format if not explicitly set]",
     20, 4000, 46,
     (GParamFlags) (G PARAM READWRITE | G PARAM STATIC STRINGS)));
/* some boolean stuff for headers */
g_object_class_install_property (klass, ARG_VBR,
  g_param_spec_boolean ("vbr", "VBR",
     "Whether the input video stream is variable bitrate",
     FALSE,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
g_object_class_install_property (klass, ARG_SYSTEM_HEADERS,
  g_param_spec_boolean ("system-headers", "System headers",
     "Create system header in every pack for generic formats",
     FALSE,
```

```
(GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#if 0
                   /* not supported */
g_object_class_install_property (klass, ARG_SPLIT_SEQUENCE,
  g_param_spec_boolean ("split-sequence", "Split sequence",
     "Simply split a sequence across files "
     "(rather than building run-out/run-in)",
     FALSE,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
/* size of a segment */
g_object_class_install_property (klass, ARG_SEGMENT_SIZE,
  g_param_spec_int ("max-segment-size", "Max. segment size",
     "Max. size per segment/file in MB (0 = unlimited)",
     0, 10 * 1024, 0,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
#endif
/* packets per pack (generic formats) */
g_object_class_install_property (klass, ARG_PACKETS_PER_PACK,
  g_param_spec_int ("packets-per-pack", "Packets per pack",
     "Number of packets per pack for generic formats",
     1, 100, 1,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
/* size of one sector */
g object class install property (klass, ARG SECTOR SIZE,
  g_param_spec_int ("sector-size", "Sector size",
     "Specify sector size in bytes for generic formats",
     256, 16384, 2048,
     (GParamFlags) (G_PARAM_READWRITE | G_PARAM_STATIC_STRINGS)));
}
* set/get gobject properties.
void
GstMplexJob::getProperty (guint prop_id, GValue * value)
switch (prop_id) {
 case ARG_FORMAT:
  g_value_set_enum (value, mux_format);
  break;
 case ARG_MUX_BITRATE:
  /* convert from bytes back to bits */
  g_value_set_int (value, (data_rate * 8) / 1000);
  break;
 case ARG_VBR:
```

```
g_value_set_boolean (value, VBR);
  break:
 case ARG_SYSTEM_HEADERS:
  g_value_set_boolean (value, always_system_headers);
  break:
 case ARG_SPLIT_SEQUENCE:
  g_value_set_boolean (value, multifile_segment);
  break;
 case ARG_SEGMENT_SIZE:
  g_value_set_int (value, max_segment_size);
  break;
 case ARG_PACKETS_PER_PACK:
  g_value_set_int (value, packets_per_pack);
  break;
 case ARG_SECTOR_SIZE:
  g_value_set_int (value, sector_size);
  break;
 case ARG BUFSIZE:
  g_value_set_int (value, bufsize);
  break;
 default:
  break;
}
void
GstMplexJob::setProperty (guint prop_id, const GValue * value)
switch (prop_id) {
 case ARG_FORMAT:
  mux_format = g_value_get_enum (value);
  break;
 case ARG_MUX_BITRATE:
  /* data_rate expects bytes (don't ask me why the property itself is
   * in bits, I'm just staying compatible to mjpegtools options), and
   * rounded up to 50-bytes. */
  data_rate = ((g_value_get_int (value) * 1000 / 8 + 49) / 50) * 50;
  break;
 case ARG_VBR:
  VBR = g_value_get_boolean (value);
  break;
 case ARG_SYSTEM_HEADERS:
  always_system_headers = g_value_get_boolean (value);
  break;
 case ARG_SPLIT_SEQUENCE:
  multifile_segment = g_value_get_boolean (value);
  break;
 case ARG_SEGMENT_SIZE:
```

```
max_segment_size = g_value_get_int (value);
   break:
  case ARG_PACKETS_PER_PACK:
   packets_per_pack = g_value_get_int (value);
   break:
  case ARG_SECTOR_SIZE:
   sector_size = g_value_get_int (value);
   break;
  case ARG_BUFSIZE:
   bufsize = g_value_get_int (value);
   break;
 default:
   break:
}
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* gstmplexjob.hh: gstreamer/mplex multiplex-job wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef __GST_MPLEXJOB_H__
#define __GST_MPLEXJOB_H__
#include <glib-object.h>
#include <interact.hpp>
class GstMplexJob : public MultiplexJob {
public:
GstMplexJob (void);
/* gobject properties */
static void initProperties (GObjectClass *klass);
```

```
/* set/get gobject properties */
void getProperty (guint
                            prop_id,
   GValue
               *value);
void setProperty (guint
                           prop_id,
   const GValue *value);
int bufsize:
};
#endif /* __GST_MPLEXJOB_H__ */
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexoutputstream.hh: gstreamer/mplex output stream wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifdef HAVE CONFIG H
#include "config.h"
#endif
#include <string.h>
#include "gstmplex.hh"
#include "gstmplexoutputstream.hh"
* Class init functions.
GstMplexOutputStream::GstMplexOutputStream (GstMplex * _element, GstPad * _pad):
OutputStream ()
```

```
mplex = _element;
pad = _pad;
size = 0;
}
* Open/close. Basically 'no-op's (close() sets EOS).
* Open (): -1 means failure, 0 means success.
GstMplexOutputStream::Open (void)
return 0;
}
void
GstMplexOutputStream::Close (void)
GST_MPLEX_MUTEX_LOCK (mplex);
GST_DEBUG_OBJECT (mplex, "closing stream and sending eos");
gst_pad_push_event (pad, gst_event_new_eos ());
/* notify chain there is no more need to supply buffers */
mplex->eos = TRUE;
GST_MPLEX_SIGNAL_ALL (mplex);
GST_MPLEX_MUTEX_UNLOCK (mplex);
}
* Get size of current segment.
#if GST_MJPEGTOOLS_API >= 10900
uint64_t
GstMplexOutputStream::SegmentSize (void)
#else
off_t
GstMplexOutputStream::SegmentSize (void)
#endif
{
return size;
}
* Next segment; not really supported.
```

```
void
GstMplexOutputStream::NextSegment (void)
size = 0;
GST WARNING OBJECT (mplex, "multiple file output is not supported");
/* FIXME: no such filesink behaviour to be expected */
* Write data.
*/
void
GstMplexOutputStream::Write (guint8 * data, guint len)
GstBuffer *buf;
buf = gst_buffer_new_and_alloc (len);
memcpy (GST BUFFER DATA (buf), data, len);
size += len;
GST_MPLEX_MUTEX_LOCK (mplex);
gst_buffer_set_caps (buf, GST_PAD_CAPS (pad));
mplex->srcresult = gst_pad_push (pad, buf);
GST_MPLEX_MUTEX_UNLOCK (mplex);
}
/* GStreamer mplex (mjpegtools) wrapper
* (c) 2003 Ronald Bultje <rbultje@ronald.bitfreak.net>
* (c) 2008 Mark Nauwelaerts <mnauw@users.sourceforge.net>
* gstmplexoutputstream.hh: gstreamer/mplex output stream wrapper
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
```

```
*/
```

```
#ifndef __GST_MPLEXOUTPUTSTREAM_H__
#define __GST_MPLEXOUTPUTSTREAM_H__
#include <gst/gst.h>
#include <mjpeg_types.h>
#include <outputstrm.hpp>
#include "gstmplex.hh"
class GstMplexOutputStream : public OutputStream {
public:
GstMplexOutputStream (GstMplex *element, GstPad *pad);
/* open/close. Basically 'no-op's (close() sets EOS). */
int Open (void);
void Close (void);
/* get size of current segment */
#if GST MJPEGTOOLS API >= 10900
uint64_t SegmentSize (void);
#else
off_t SegmentSize (void);
#endif
/* next segment */
void NextSegment (void);
/* write data */
void Write (guint8 *data, guint len);
private:
GstMplex *mplex;
GstPad *pad;
guint64 size;
};
#endif /* __GST_MPLEXOUTPUTSTREAM_H__ */
```

1.13 gstreamer-plugins-base 0.10.35.1

1.13.1 Available under license:

GNU LIBRARY GENERAL PUBLIC LICENSE Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because 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 are intended to guarantee your freedom to share and change free software--to make sure 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 libraries 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies 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 must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling 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 copy, 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 the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced 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 will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must 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 license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, 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 program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might 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 themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead 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 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.

GNU LIBRARY GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also 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 some 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" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library 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 conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence 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 modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - b) You must cause the files modified to carry prominent notices stating that you 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 third parties under the terms of this License.
 - d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does 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 must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these 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 copies 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 terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 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 code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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 copyright notices, you must include the copyright notice for the Library among them, as well 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 Library", as object code and/or source code, so that the user can modify the Library and 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 modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the

Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus

excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

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

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

That's all there is to it!

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, 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 freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these 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 restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced 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 redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
 - b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

- 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
 - a) Accompany it with the complete corresponding machine-readable
 source code, which must be distributed under the terms of Sections
 1 and 2 above on a medium customarily used for software interchange; or,
 - b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
- 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General

Public License instead of this License.

- /* GStreamer
- * Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>

*

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

*

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

*

- * You should have received a copy of the GNU Library General Public
- * License along with this library; if not, write to the
- * Free Software Foundation, Inc., 59 Temple Place Suite 330,
- * Boston, MA 02111-1307, USA.

*/

Disclaimer: The GStreamer team makes a real effort to make sure that the information in this file is as up-to-date and accurate as possible. However, this file may contain errors and omissions. Some dependant libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

```
a52dec
             liba52
                          (http://liba52.sourceforge.net/)
aasink
            aalib
                         (http://sourceforge.net/projects/aa-project/)
cdparanoia
               libcdparanoia (http://www.xiph.org/paranoia/)
dtsdec
            libdts
                         (http://www.videolan.org/dtsdec.html)
dvdnavsrc
              libdvdnav
                             (http://dvd.sourceforge.net/)
dxr3
                      (http://dxr3.sourceforge.net/)
icecastsend
              libshout
                            (http://www.icecast.org)
mad
            libmad
                          (http://www.mars.org/home/rob/proj/mpeg/)
mpeg2dec
               libmpeg2
                              (http://libmpeg2.sourceforge.net/)
mpeg2enc
               libmpeg2enc
                                (http://mjpeg.sourceforge.net/)
```

```
mplex
             libmplex
                           (http://mjpeg.sourceforge.net/)
siddec
            libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
trm
            libmusicbrainz (http://www.musicbrainz.org/)
xine
            libxine
                         (http://xinehq.de/)
xvid
            libxvidcore
                           (http://www.xvid.org/)
Plugins derived from GPL code are as follows:
dvdreadsrc
               libdvdread
                             (http://www.dtek.chalmers.se/groups/dvd/)
jack
            libjack
                         (http://jackit.sourceforge.net/)
                    Note libjack is LGPL, but plugin is GPL.
                None
                             (Algorithm by Ralph Loader, Joerg Walter,
monoscope
                    Richard Boulton, and Andy Lo A Foe)
                         (Erik Walthinsen's algorithm)
rtjpeg
            None
                        (http://www.linphone.org/ortp/)
rtp
           None
synaesthesia
                         (http://www.logarithmic.net/pfh/synaesthesia)
                              (Algorithm by Chrisoph Moar, Wim Tayman's and
system_encode None
                    Erik Walthinsen)
vbidec
             None
                          (Algorithm by Billy Biggs, Doug Bell,
                    Erik Walthinsen and David I. Lehn)
Plugins which use a LGPL library are as follows:
alsa
           alsa
                       (http://alsa-project.org/)
artsdsink
             aRts
                          (http://arts-project.org/)
cacasink
             libcaca
                          (http://sam.zoy.org/projects/libcaca/)
colorspacelcs libcolorspace
             libdy
dvdec
                         (http://libdv.sourceforge.net/)
esdmon,esdsink libesd
                             (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac
            libfaac
                         (http://www.audiocoding.com/modules/mydownloads/)
fameenc
              libfame
                           (http://fame.sourceforge.net/)
ffmpeg
             ffmpeg
                           (http://ffmpeg.sourceforge.net/)
              GTK+
gdkpixbuf
                             (http://www.gtk.org/)
gnomevfs
               gnome-vfs
                              (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)
gst_arts
             aRts
                         (http://arts-project.org/)
gst1394
             libraw1394
                             (http://www.linux1394.org/)
gstaf
            libaudiofile
                          (http://www.68k.org/~michael/audiofile/)
           libsndfile
                         (http://www.mega-nerd.com/libsndfile/)
gstsf
hermescolorspace Hermes
                                (http://www.clanlib.org/hermes/)
kio
           KDE
                         (http://www.kde.org/)
ladspa
                       (http://www.ladspa.org/)
lame
            libmp3lame
                            (http://lame.sourceforge.net/)
```

(http://libvisual.sourceforge.net/)

(http://mikmod.raphnet.net/)

(http://www.matroska.org/)

(http://www.opensound.com/)

libvisual

libmikmod

libvisual

matroska

mikmod

ossaudio

qcamsrc

rfbenc librfb

sdlvideosink libsdl (http://www.libsdl.org/)
shout2send libshout2 (http://www.icecast.org)

smoothwave

swfdec (http://swfdec.sourceforge.net/)
tarkin (http://svn.xiph.org/trunk/tarkin/)
textoverlay pango (http://www.pango.org/)

dirac (http://www.bbc.co.uk/rd/projects/dirac/)
effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)

musepack (http://www.musepack.net/)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)

gsttheora libtheora (http://www.theora.org/)
speex (http://www.speex.org/)
flac libFLAC (http://flac.sourceforge.net/)

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)
osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)

faad's license depends on its major version:

- for FAAD1 : it is LGPL

- for FAAD2 : it is GPL

look at these pages for more information on licenses:

http://www.audiocoding.com/modules/wiki/?page=FAAD2

http://www.audiocoding.com/modules/wiki/?page=FAAC

by default, GStreamer faad plugin would compile against FAAD2 if available. it falls back to FAAD1 if not.

1.14 gstreamer-plugins-good 0.10.30.1

1.14.1 Available under license:

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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 are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies 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 must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling 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 copy, 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 someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems 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 license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order 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 work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code 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 competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages 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 de-facto 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 non-free 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 many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux 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 modified version of the Library.

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

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also 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 some 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" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation 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 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.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library 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 conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence 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 modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - b) You must cause the files modified to carry prominent notices stating that you 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 third parties under the terms of this License.
 - d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does 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 must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these 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 copies 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 terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 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 code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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 with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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 copyright notices, you must include the copyright notice for the Library among them, as well 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 Library", as object code and/or source code, so that the user can modify the Library and 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 modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) 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.
- d) 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.
- e) 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 materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
 - a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
- 8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
- 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the

original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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

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

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

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

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

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

That's all there is to it!

/* GStreamer

* Copyright (C) <1999> Erik Walthinsen <omega@cse.ogi.edu>

*

* EffecTV:

* Copyright (C) 2001 FUKUCHI Kentarou

*

- * EffecTV is free software. We release this product under the terms of the
- * GNU General Public License version 2. The license is included in the file
- * COPYING.

*

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

*/

This is a demuxer supporting a subset of the Quicktime video container format developed by Apple. Apple and others have some patents on some features of the Quicktime container format in regards to technologies such as QuicktimeVR and RTP hinting. Due to that be aware that if ever such features are added to this demuxer it would need to be moved to the -ugly module or those features need to come as add-in functionality stored in another module.

As the plugin is as of today's date (19th of June 2007) it does not violate any software patents we know of.

/*

* Unless otherwise indicated, Source Code is licensed under MIT license.

*

- * Permission is hereby granted, free of charge, to any person obtaining a copy of
- * this software and associated documentation files (the "Software"), to deal in
- * the Software without restriction, including without limitation the rights to
- * use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
- * of the Software, and to permit persons to whom the Software is furnished to do
- * so, subject to the following conditions:

*

- * The above copyright notice and this permission notice shall be included in all
- * copies or substantial portions of the Software.

*

- * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
- * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
- * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
- * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
- * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
- \ast OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
- * SOFTWARE.

*/

Disclaimer: The GStreamer team makes a real effort to make sure that the information in this file is as up-to-date and accurate as possible. However, this file may contain errors and omissions. Some dependant libraries change their licensing from version-to-version and some of the libraries listed here as LGPL were under the GPL license in older releases. Distributions which include GStreamer are responsible for ensuring that plugins are used in accordance with licensing terms and other laws.

GStreamer is developed under the terms of the LGPL (see LICENSE file for details). Some of our plugins however rely on libraries which are available under other

licenses. This means that if you are using an application which has a non-GPL compatible license, for instance a closed-source application with GStreamer you have to make sure not to use GPL linked or derived plugins. When using GPL linked plugins GStreamer is for all practical reasons under the GPL itself.

The plugins which use a GPL library are as follows:

```
a52dec
             liba52
                          (http://liba52.sourceforge.net/)
aasink
             aalib
                         (http://sourceforge.net/projects/aa-project/)
               libcdparanoia (http://www.xiph.org/paranoia/)
cdparanoia
dtsdec
            libdts
                         (http://www.videolan.org/dtsdec.html)
dvdnavsrc
               libdvdnav
                              (http://dvd.sourceforge.net/)
dxr3
                       (http://dxr3.sourceforge.net/)
icecastsend
              libshout
                            (http://www.icecast.org)
            libmad
                          (http://www.mars.org/home/rob/proj/mpeg/)
mad
mpeg2dec
               libmpeg2
                              (http://libmpeg2.sourceforge.net/)
mpeg2enc
               libmpeg2enc
                                (http://mjpeg.sourceforge.net/)
mplex
             libmplex
                            (http://mjpeg.sourceforge.net/)
siddec
             libsidplay 1.36 (http://www.geocities.com/SiliconValley/Lakes/5147/sidplay/,
                    http://sourceforge.net/projects/sidplay2/)
            libmusicbrainz (http://www.musicbrainz.org/)
trm
xine
            libxine
                         (http://xinehq.de/)
                           (http://www.xvid.org/)
xvid
            libxvidcore
```

Plugins derived from GPL code are as follows:

```
dvdreadsrc
              libdvdread
                             (http://www.dtek.chalmers.se/groups/dvd/)
                        (http://jackit.sourceforge.net/)
jack
           libjack
                    Note libjack is LGPL, but plugin is GPL.
monoscope
               None
                            (Algorithm by Ralph Loader, Joerg Walter,
                    Richard Boulton, and Andy Lo A Foe)
rtjpeg
            None
                         (Erik Walthinsen's algorithm)
rtp
           None
                        (http://www.linphone.org/ortp/)
                         (http://www.logarithmic.net/pfh/synaesthesia)
synaesthesia
system_encode None
                              (Algorithm by Chrisoph Moar, Wim Tayman's and
                    Erik Walthinsen)
vbidec
            None
                          (Algorithm by Billy Biggs, Doug Bell,
                    Erik Walthinsen and David I. Lehn)
```

Plugins which use a LGPL library are as follows:

```
alsa
           alsa
                       (http://alsa-project.org/)
artsdsink
             aRts
                          (http://arts-project.org/)
cacasink
             libcaca
                           (http://sam.zoy.org/projects/libcaca/)
colorspacelcs
               libcolorspace
dvdec
             libdy
                         (http://libdv.sourceforge.net/)
esdmon,esdsink libesd
                              (ftp.gnome.org/pub/GNOME/stable/sources/esound/)
faac
            libfaac
                         (http://www.audiocoding.com/modules/mydownloads/)
```

fameenc libfame (http://fame.sourceforge.net/)
ffmpeg ffmpeg (http://ffmpeg.sourceforge.net/)

gdkpixbuf GTK+ (http://www.gtk.org/)

gnomevfs gnome-vfs (ftp.gnome.org//pub/GNOME/stable/sources/gnome-vfs/)

gst_arts aRts (http://arts-project.org/)

gst1394 libraw1394 (http://www.linux1394.org/)

gstaf libaudiofile (http://www.68k.org/~michael/audiofile/)
gstsf libsndfile (http://www.mega-nerd.com/libsndfile/)
hermescolorspace Hermes (http://www.clanlib.org/hermes/)

kio KDE (http://www.kde.org/) ladspa (http://www.ladspa.org/)

lame libmp3lame (http://lame.sourceforge.net/) libvisual libvisual (http://libvisual.sourceforge.net/)

matroska (http://www.matroska.org/)

mikmod libmikmod (http://mikmod.raphnet.net/)
ossaudio (http://www.opensound.com/)

qcamsrc

rfbenc librfb

sdlvideosink libsdl (http://www.libsdl.org/) shout2send libshout2 (http://www.icecast.org)

smoothwave

swfdec (http://swfdec.sourceforge.net/)
tarkin (http://svn.xiph.org/trunk/tarkin/)
textoverlay pango (http://www.pango.org/)

dirac (http://www.bbc.co.uk/rd/projects/dirac/)
effectv (Our ports was relicensed)(http://effectv.sourceforge.net/)

musepack (http://www.musepack.net/)

Plugins which use a BSD covered library are as follows:

ogg libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)
vorbis libogg/libvorbis (http://www.xiph.org/ogg/vorbis/)

gsttheora libtheora (http://www.theora.org/)
speex (http://www.speex.org/)

flac libFLAC (http://flac.sourceforge.net/)

Plugins based on libraries with other free licenses:

ximagesink libXv xvimagesink libXv

- license: MIT X11 / X Consortium license

gsm libgsm

- license MIT license http://kbs.cs.tu-berlin.de/~jutta/toast.html

festival (http://www.cstr.ed.ac.uk/projects/festival/)

- license: http://www.cstr.ed.ac.uk/projects/festival/freecopyright.shtml

jpeg (http://www.ijg.org/)

- license: IJG license

nas (http://radscan.com/nas.html)

- license: NAS license

snapshot libpng (http://www.libpng.org/pub/png/)

- license: PNG license

mngdec/mngenc libmng (http://gjuyn.xs4all.nl/libmng)

- license PNG license

Plugins using non-free libraries:

divxdec, divxenc (http://www.divx.com/)

osxaudio (http://www.apple.com/macosx/)

sunaudiosink (http://www.sun.com/)

Unsure:

faad libfaad (http://www.audiocoding.com/)

faad's license depends on its major version:

- for FAAD1 : it is LGPL

- for FAAD2: it is GPL

look at these pages for more information on licenses:

http://www.audiocoding.com/modules/wiki/?page=FAAD2

http://www.audiocoding.com/modules/wiki/?page=FAAC

by default, GStreamer faad plugin would compile against FAAD2 if available.

it falls back to FAAD1 if not.

/*

- * GStreamer
- * Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
- * Copyright (C) 2006 Stefan Kost <ensonic@users.sf.net>

*

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

*

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

*

- * You should have received a copy of the GNU Library General Public
- * License along with this library; if not, write to the
- * Free Software Foundation, Inc., 59 Temple Place Suite 330,
- * Boston, MA 02111-1307, USA.

```
*/
* SECTION:element-audioamplify
* Amplifies an audio stream by a given factor and allows the selection of different clipping modes.
* The difference between the clipping modes is best evaluated by testing.
* <refsect2>
* <title>Example launch line</title>
* gst-launch audiotestsrc wave=saw! audioamplify amplification=1.5! alsasink
* gst-launch filesrc location="melo1.ogg" ! oggdemux ! vorbisdec ! audioconvert ! audioamplify amplification=1.5
method=wrap-negative! alsasink
* gst-launch audiotestsrc wave=saw! audioconvert! audioamplify amplification=1.5 method=wrap-positive!
audioconvert! alsasink
* ]|
* </refsect2>
*/
#ifdef HAVE CONFIG H
#include "config.h"
#endif
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
#include <gst/controller/gstcontroller.h>
#include "audioamplify.h"
#define GST_CAT_DEFAULT gst_audio_amplify_debug
GST_DEBUG_CATEGORY_STATIC (GST_CAT_DEFAULT);
/* Filter signals and args */
enum
/* FILL ME */
LAST_SIGNAL
};
enum
{
PROP_0,
PROP_AMPLIFICATION,
PROP_CLIPPING_METHOD
```

};

```
enum
METHOD\_CLIP = 0,
METHOD_WRAP_NEGATIVE,
METHOD_WRAP_POSITIVE,
METHOD NOCLIP,
NUM_METHODS
};
#define GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD (gst_audio_amplify_clipping_method_get_type
static GType
gst_audio_amplify_clipping_method_get_type (void)
static GType gtype = 0;
if (gtype == 0) {
 static const GEnumValue values[] = {
  {METHOD_CLIP, "Normal clipping (default)", "clip"},
  {METHOD WRAP NEGATIVE,
      "Push overdriven values back from the opposite side",
     "wrap-negative"},
  {METHOD_WRAP_POSITIVE, "Push overdriven values back from the same side",
     "wrap-positive"},
  {METHOD_NOCLIP, "No clipping", "none"},
  {0, NULL, NULL}
 };
 /* FIXME 0.11: rename to GstAudioAmplifyClippingMethod */
 gtype = g_enum_register_static ("GstAudioPanoramaClippingMethod", values);
return gtype;
}
#define ALLOWED_CAPS
 "audio/x-raw-int,"
 " depth=(int)8,"
 " width=(int)8,"
 " endianness=(int)BYTE_ORDER,"
 " signed=(bool)TRUE,"
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]; "
 "audio/x-raw-int,"
 " depth=(int)16,"
 " width=(int)16,"
 " endianness=(int)BYTE_ORDER,"
 " signed=(bool)TRUE,"
```

```
" rate=(int)[1,MAX],"
 "channels=(int)[1,MAX];"
 "audio/x-raw-int,"
 " depth=(int)32,"
 " width=(int)32,"
 " endianness=(int)BYTE_ORDER,"
 " signed=(bool)TRUE,"
                                                \
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]; "
 "audio/x-raw-float,"
 " width=(int){32,64},"
 " endianness=(int)BYTE_ORDER,"
 " rate=(int)[1,MAX],"
 " channels=(int)[1,MAX]"
#define DEBUG_INIT(bla) \
GST_DEBUG_CATEGORY_INIT (gst_audio_amplify_debug, "audioamplify", 0, "audioamplify element");
GST_BOILERPLATE_FULL (GstAudioAmplify, gst_audio_amplify, GstAudioFilter,
 GST_TYPE_AUDIO_FILTER, DEBUG_INIT);
static gboolean gst_audio_amplify_set_process_function (GstAudioAmplify *
 filter, gint clipping, gint format, gint width);
static void gst_audio_amplify_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec);
static void gst_audio_amplify_get_property (GObject * object, guint prop_id,
 GValue * value, GParamSpec * pspec);
static gboolean gst_audio_amplify_setup (GstAudioFilter * filter,
 GstRingBufferSpec * format);
static GstFlowReturn gst_audio_amplify_transform_ip (GstBaseTransform * base,
 GstBuffer * buf);
#define MIN gint8 G MININT8
#define MAX_gint8 G_MAXINT8
#define MIN_gint16 G_MININT16
#define MAX_gint16 G_MAXINT16
#define MIN_gint32 G_MININT32
#define MAX_gint32 G_MAXINT32
#define MAKE_INT_FUNCS(type,largetype)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
```

```
largetype val = *d * filter->amplification;
 *d++ = CLAMP (val, MIN_##type, MAX_##type);
}
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify * filter, \
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 largetype val = *d * filter->amplification;
 if (val > MAX_##type)
  val = MIN_##type + (val - MIN_##type) % ((largetype) MAX_##type + 1 - \
     MIN_##type);
 else if (val < MIN_##type)
  val = MAX_{\#type} - (MAX_{\#type} - val) \% ((largetype) MAX_{\#type} + 1 - 
 *d++ = val;
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 largetype val = *d * filter->amplification;
 do {
  if (val > MAX_##type)
   val = MAX_##type - (val - MAX_##type);
  else if (val < MIN_##type)
   val = MIN_##type + (MIN_##type - val);
  else
   break;
 } while (1);
 *d++ = val;
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--)
 *d++ *= filter->amplification;
```

```
}
#define MAKE_FLOAT_FUNCS(type)
static void
gst_audio_amplify_transform_##type##_clip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d* filter->amplification;
  *d++ = CLAMP (val, -1.0, +1.0);
static void
gst_audio_amplify_transform_##type##_wrap_negative (GstAudioAmplify *
 filter, void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d * filter->amplification;
 do {
  if (val > 1.0)
    val = -1.0 + (val - 1.0);
   else if (val < -1.0)
    val = 1.0 - (1.0 - val);
   else
    break;
  } while (1);
  *d++ = val;
static void
gst_audio_amplify_transform_##type##_wrap_positive (GstAudioAmplify * filter, \
  void * data, guint num_samples)
type *d = data;
while (num_samples--) {
 type val = *d* filter->amplification;
 do {
   if (val > 1.0)
    val = 1.0 - (val - 1.0);
   else if (val < -1.0)
    val = -1.0 + (-1.0 - val);
   else
    break;
```

```
} while (1);
  *d++ = val;
}
static void
gst_audio_amplify_transform_##type##_noclip (GstAudioAmplify * filter,
 void * data, guint num_samples)
type *d = data;
while (num_samples--)
 *d++ *= filter->amplification;
}
/* *INDENT-OFF* */
MAKE_INT_FUNCS (gint8,gint)
MAKE_INT_FUNCS (gint16,gint)
MAKE_INT_FUNCS (gint32,gint64)
MAKE_FLOAT_FUNCS (gfloat)
MAKE_FLOAT_FUNCS (gdouble)
/* *INDENT-ON* */
/* GObject vmethod implementations */
static void
gst_audio_amplify_base_init (gpointer klass)
GstElementClass *element_class = GST_ELEMENT_CLASS (klass);
GstCaps *caps;
gst_element_class_set_details_simple (element_class, "Audio amplifier",
   "Filter/Effect/Audio",
   "Amplifies an audio stream by a given factor",
   "Sebastian Drge <slomo@circular-chaos.org>");
caps = gst_caps_from_string (ALLOWED_CAPS);
gst_audio_filter_class_add_pad_templates (GST_AUDIO_FILTER_CLASS (klass),
  caps);
gst_caps_unref (caps);
}
static void
gst_audio_amplify_class_init (GstAudioAmplifyClass * klass)
GObjectClass *gobject_class;
gobject_class = (GObjectClass *) klass;
gobject_class->set_property = gst_audio_amplify_set_property;
```

```
gobject_class->get_property = gst_audio_amplify_get_property;
g_object_class_install_property (gobject_class, PROP_AMPLIFICATION,
  g_param_spec_float ("amplification", "Amplification",
    "Factor of amplification", -G_MAXFLOAT, G_MAXFLOAT,
    1.0,
    G PARAM READWRITE | GST PARAM CONTROLLABLE | G PARAM STATIC STRINGS));
/**
 * GstAudioAmplify:clipping-method
 * Clipping method: clip mode set values higher than the maximum to the
 * maximum. The wrap-negative mode pushes those values back from the
 * opposite side, wrap-positive pushes them back from the same side.
 **/
g_object_class_install_property (gobject_class, PROP_CLIPPING_METHOD,
  g param spec enum ("clipping-method", "Clipping method",
    "Selects how to handle values higher than the maximum",
    GST_TYPE_AUDIO_AMPLIFY_CLIPPING_METHOD, METHOD_CLIP,
    G PARAM READWRITE | G PARAM STATIC STRINGS));
GST_AUDIO_FILTER_CLASS (klass)->setup =
  GST DEBUG FUNCPTR (gst audio amplify setup);
GST_BASE_TRANSFORM_CLASS (klass)->transform_ip =
  GST_DEBUG_FUNCPTR (gst_audio_amplify_transform_ip);
static void
gst_audio_amplify_init (GstAudioAmplify * filter, GstAudioAmplifyClass * klass)
{
filter->amplification = 1.0;
gst_audio_amplify_set_process_function (filter, METHOD_CLIP,
  GST BUFTYPE LINEAR, 16);
gst_base_transform_set_in_place (GST_BASE_TRANSFORM (filter), TRUE);
gst_base_transform_set_gap_aware (GST_BASE_TRANSFORM (filter), TRUE);
}
static GstAudioAmplifyProcessFunc
gst_audio_amplify_process_function (gint clipping, gint format, gint width)
static const struct process
 gint format;
 gint width;
 gint clipping;
 GstAudioAmplifyProcessFunc func;
} process[] = {
```

```
GST BUFTYPE FLOAT, 32, METHOD CLIP,
    gst_audio_amplify_transform_gfloat_clip}, {
GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gfloat_wrap_negative}, {
GST_BUFTYPE_FLOAT, 32, METHOD_WRAP_POSITIVE,
    gst audio amplify transform gfloat wrap positive}, {
GST_BUFTYPE_FLOAT, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gfloat_noclip}, {
GST BUFTYPE FLOAT, 64, METHOD CLIP,
    gst_audio_amplify_transform_gdouble_clip}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_NEGATIVE,
    gst audio amplify transform gdouble wrap negative}, {
GST_BUFTYPE_FLOAT, 64, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gdouble_wrap_positive}, {
GST BUFTYPE FLOAT, 64, METHOD NOCLIP,
    gst_audio_amplify_transform_gdouble_noclip}, {
GST BUFTYPE LINEAR, 8, METHOD CLIP, gst audio amplify transform gint8 clip}, {
GST_BUFTYPE_LINEAR, 8, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint8_wrap_negative}, {
GST BUFTYPE LINEAR, 8, METHOD WRAP POSITIVE,
    gst_audio_amplify_transform_gint8_wrap_positive}, {
GST_BUFTYPE_LINEAR, 8, METHOD_NOCLIP,
    gst audio amplify transform gint8 noclip}, {
GST_BUFTYPE_LINEAR, 16, METHOD_CLIP,
    gst audio amplify transform gint16 clip}, {
GST BUFTYPE LINEAR, 16, METHOD WRAP NEGATIVE,
    gst_audio_amplify_transform_gint16_wrap_negative}, {
GST BUFTYPE LINEAR, 16, METHOD WRAP POSITIVE,
    gst_audio_amplify_transform_gint16_wrap_positive}, {
GST_BUFTYPE_LINEAR, 16, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint16_noclip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_CLIP,
    gst_audio_amplify_transform_gint32_clip}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_NEGATIVE,
    gst_audio_amplify_transform_gint32_wrap_negative}, {
GST_BUFTYPE_LINEAR, 32, METHOD_WRAP_POSITIVE,
    gst_audio_amplify_transform_gint32_wrap_positive}, {
GST_BUFTYPE_LINEAR, 32, METHOD_NOCLIP,
    gst_audio_amplify_transform_gint32_noclip}, {
0, 0, 0, NULL}
}:
const struct process *p;
for (p = process; p->func; p++)
if (p->format == format && p->width == width && p->clipping == clipping)
  return p->func;
return NULL;
```

```
}
static gboolean
gst_audio_amplify_set_process_function (GstAudioAmplify * filter, gint
 clipping_method, gint format, gint width)
GstAudioAmplifyProcessFunc process;
/* set processing function */
process = gst\_audio\_amplify\_process\_function \ (clipping\_method, format, width);
if (!process) {
 GST_DEBUG ("wrong format");
 return FALSE;
}
filter->process = process;
filter->clipping method = clipping method;
filter->format = format;
filter->width = width;
return TRUE;
}
static void
gst_audio_amplify_set_property (GObject * object, guint prop_id,
 const GValue * value, GParamSpec * pspec)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);
switch (prop_id) {
 case PROP_AMPLIFICATION:
  filter->amplification = g_value_get_float (value);
  gst_base_transform_set_passthrough (GST_BASE_TRANSFORM (filter),
     filter->amplification == 1.0);
  break;
 case PROP_CLIPPING_METHOD:
  gst_audio_amplify_set_process_function (filter, g_value_get_enum (value),
     filter->format, filter->width);
  break;
 default:
  G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
  break;
}
}
static void
gst_audio_amplify_get_property (GObject * object, guint prop_id,
```

```
GValue * value, GParamSpec * pspec)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (object);
switch (prop_id) {
 case PROP_AMPLIFICATION:
   g value set float (value, filter->amplification);
  break:
  case PROP_CLIPPING_METHOD:
   g_value_set_enum (value, filter->clipping_method);
   break:
  default:
   G_OBJECT_WARN_INVALID_PROPERTY_ID (object, prop_id, pspec);
   break:
}
}
/* GstAudioFilter vmethod implementations */
static gboolean
gst_audio_amplify_setup (GstAudioFilter * base, GstRingBufferSpec * format)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
return gst_audio_amplify_set_process_function (filter,
   filter->clipping_method, format->type, format->width);
}
/* GstBaseTransform vmethod implementations */
static GstFlowReturn
gst_audio_amplify_transform_ip (GstBaseTransform * base, GstBuffer * buf)
GstAudioAmplify *filter = GST_AUDIO_AMPLIFY (base);
guint num_samples;
GstClockTime timestamp, stream_time;
timestamp = GST_BUFFER_TIMESTAMP (buf);
stream_time =
   gst_segment_to_stream_time (&base->segment, GST_FORMAT_TIME, timestamp);
GST_DEBUG_OBJECT (filter, "sync to %" GST_TIME_FORMAT,
   GST_TIME_ARGS (timestamp));
if (GST_CLOCK_TIME_IS_VALID (stream_time))
 gst_object_sync_values (G_OBJECT (filter), stream_time);
num_samples =
   GST_BUFFER_SIZE (buf) / (GST_AUDIO_FILTER (filter)->format.width / 8);
```

```
if (gst_base_transform_is_passthrough (base) ||
  G UNLIKELY (GST BUFFER FLAG IS SET (buf, GST BUFFER FLAG GAP)))
 return GST_FLOW_OK;
filter->process (filter, GST_BUFFER_DATA (buf), num_samples);
return GST FLOW OK;
}
* GStreamer
* Copyright (C) 2007 Sebastian Drge <slomo@circular-chaos.org>
* Copyright (C) 2006 Stefan Kost <ensonic@users.sf.net>
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 59 Temple Place - Suite 330,
* Boston, MA 02111-1307, USA.
*/
#ifndef GST AUDIO AMPLIFY H
#define __GST_AUDIO_AMPLIFY_H__
#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/audio/audio.h>
#include <gst/audio/gstaudiofilter.h>
G BEGIN DECLS
#define GST_TYPE_AUDIO_AMPLIFY
                                          (gst_audio_amplify_get_type())
#define GST_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_CAST((obj),GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplify))
#define GST_IS_AUDIO_AMPLIFY(obj)
(G_TYPE_CHECK_INSTANCE_TYPE((obj),GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_CAST((klass)
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
#define GST_IS_AUDIO_AMPLIFY_CLASS(klass) (G_TYPE_CHECK_CLASS_TYPE((klass)
,GST_TYPE_AUDIO_AMPLIFY))
#define GST_AUDIO_AMPLIFY_GET_CLASS(obj) (G_TYPE_INSTANCE_GET_CLASS((obj)
```

```
,GST_TYPE_AUDIO_AMPLIFY,GstAudioAmplifyClass))
typedef struct _GstAudioAmplify GstAudioAmplify;
typedef struct _GstAudioAmplifyClass GstAudioAmplifyClass;
typedef void (*GstAudioAmplifyProcessFunc) (GstAudioAmplify *, void *, guint);
struct GstAudioAmplify
GstAudioFilter audiofilter;
gfloat amplification;
/* < private > */
GstAudioAmplifyProcessFunc process;
gint clipping_method;
gint format;
gint width;
};
struct _GstAudioAmplifyClass
GstAudioFilterClass parent;
};
GType gst_audio_amplify_get_type (void);
G END DECLS
#endif /* __GST_AUDIO_AMPLIFY_H__ */
```

1.15 icu4c 49.1.2

1.15.1 Available under license:

ICU License - ICU 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2012 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners. UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF online code charts under the directory http://www.unicode.org/Public/. Software includes any source code published in the Unicode Standard or under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright © 1991-2012 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

1.16 jansson 2.3.1

1.16.1 Available under license:

Copyright (c) 2009-2012 Petri Lehtinen <petri@digip.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.17 Idns 1.6.13

1.17.1 Available under license:

Copyright (c) 2005,2006, NLnetLabs All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of NLnetLabs nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2011, Xelerance

Author: Christopher Olah <chris@xelerance.com>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Xelerance nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, Zdenek Vasicek (vasicek AT fit.vutbr.cz)

Karel Slany (slany AT fit.vutbr.cz)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the organization nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.18 libxml2 2.9.2

1.18.1 Available under license:

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.19 libyuv r1175 :ICS

1.19.1 Available under license:

Copyright 2011 The LibYuv Project Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This source tree contains third party source code which is governed by third party licenses. This file contains references to files which are under other licenses than the one provided in the LICENSE file in the root of the source tree.

```
Files governed by third party licenses:
source/x86inc.asm
;* x86inc.asm: x264asm abstraction layer
***********************************
;* Copyright (C) 2005-2012 x264 project
;* Authors: Loren Merritt < lorenm@u.washington.edu>
     Anton Mitrofanov < BugMaster@narod.ru>
     Jason Garrett-Glaser <darkshikari@gmail.com>
     Henrik Gramner < hengar-6@student.ltu.se>
*
;* Permission to use, copy, modify, and/or distribute this software for any
;* purpose with or without fee is hereby granted, provided that the above
;* copyright notice and this permission notice appear in all copies.
;* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
:* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
;* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
;* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
;* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
;* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
```

1.20 MTPopupWindow 06 Jan 2013

1.20.1 Available under license:

```
// MIT License
//
// Copyright (C) 2012 Marin Todorov
//
// Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
//
// The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
//
// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

- // Created by Marin Todorov on 05/09/2012.
- // Copyright (c) 2012 Underplot ltd. All rights reserved.

1.21 NSData+Base64 n/a

1.21.1 Available under license:

- 5 // Created by Matt Gallagher on 2009/06/03.
- 6 // Copyright 2009 Matt Gallagher. All rights reserved.

7 //

- 8 // Permission is given to use this source code file, free of charge, in any
- 9 // project, commercial or otherwise, entirely at your risk, with the condition
- 10 // that any redistribution (in part or whole) of source code must retain
- 11 // this copyright and permission notice. Attribution in compiled projects is
- 12 // appreciated but not required.

1.22 openIdap 2.4.29

1.22.1 Available under license:

Copyright 1998-2012 The OpenLDAP Foundation All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License.

A copy of this license is available in the file LICENSE in the top-level directory of the distribution or, alternatively, at http://www.OpenLDAP.org/license.html>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by other parties and/or subject to additional restrictions.

This work is derived from the University of Michigan LDAP v3.3 distribution. Information concerning this software is available at http://www.umich.edu/~dirsvcs/ldap/ldap.html.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at http://www.openldap.org/>.

Portions Copyright 1998-2012 Kurt D. Zeilenga.

Portions Copyright 1998-2006 Net Boolean Incorporated. Portions Copyright 2001-2006 IBM Corporation. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License.

Portions Copyright 1999-2008 Howard Y.H. Chu. Portions Copyright 1999-2008 Symas Corporation. Portions Copyright 1998-2003 Hallvard B. Furuseth. Portions Copyright 2007-2011 Gavin Henry. Portions Copyright 2007-2011 Suretec Systems Ltd. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that this notice is preserved. The names of the copyright holders may not be used to endorse or promote products derived from this software without their specific prior written permission. This software is provided "as is" without express or implied warranty.

Portions Copyright (c) 1992-1996 Regents of the University of Michigan. All rights reserved.

Redistribution and use in source and binary forms are permitted provided that this notice is preserved and that due credit is given to the University of Michigan at Ann Arbor. The name of the University may not be used to endorse or promote products derived from this software without specific prior written permission. This software is provided "as is" without express or implied warranty. A number of files contained in OpenLDAP Software contain a statement:

USE, MODIFICATION, AND REDISTRIBUTION OF THIS WORK IS SUBJECT TO VERSION 2.0.1 OF THE OPENLDAP PUBLIC LICENSE, A COPY OF WHICH IS AVAILABLE AT HTTP://WWW.OPENLDAP.ORG/LICENSE.HTML OR IN THE FILE "LICENSE" IN THE TOP-LEVEL DIRECTORY OF THE DISTRIBUTION.

The following is a verbatim copy of version 2.0.1 of the OpenLDAP Public License referenced in the above statement.

The OpenLDAP Public License

Version 2.0.1, 21 December 1999 Copyright 1999, The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved.

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. The name "OpenLDAP" must not be used to endorse or promote products derived from this Software without prior written permission of the OpenLDAP Foundation. For written permission, please contact foundation@openldap.org.
- 4. Products derived from this Software may not be called "OpenLDAP" nor may "OpenLDAP" appear in their names without prior written permission of the OpenLDAP Foundation. OpenLDAP is a trademark of the OpenLDAP Foundation.
- 5. Due credit should be given to the OpenLDAP Project (http://www.openldap.org/).

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1998-2012 The OpenLDAP Foundation. All rights reserved.

COPYING RESTRICTIONS APPLY.

See COPYRIGHT and LICENSE files in the top-level directory of this

distribution (i.e., ../../COPYRIGHT and ../../LICENSE, respectively). Copyright 1998-2012 The OpenLDAP Foundation. All rights reserved.

COPYING RESTRICTIONS APPLY.

See COPYRIGHT and LICENSE files in the top-level directory of this distribution (i.e., ../../COPYRIGHT and ../../LICENSE, respectively).

NeoSoft Tcl client extensions to Lightweight Directory Access Protocol.

Copyright (c) 1998-1999 NeoSoft, Inc. All Rights Reserved.

This software may be used, modified, copied, distributed, and sold, in both source and binary form provided that these copyrights are retained and their terms are followed.

Under no circumstances are the authors or NeoSoft Inc. responsible for the proper functioning of this software, nor do the authors assume any liability for damages incurred with its use.

Redistribution and use in source and binary forms are permitted provided that this notice is preserved and that due credit is given to NeoSoft. Inc.

NeoSoft, Inc. may not be used to endorse or promote products derived from this software without specific prior written permission. This software is provided "as is" without express or implied warranty.

Requests for permission may be sent to NeoSoft Inc, 1770 St. James Place, Suite 500, Houston, TX, 77056.

Copyright 2011 Howard Chu, Symas Corp.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted only as authorized by the OpenLDAP Public License.

A copy of this license is available in the file LICENSE in the top-level directory of the distribution or, alternatively, at http://www.OpenLDAP.org/license.html>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by other parties and/or subject to additional restrictions.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at http://www.openldap.org/>..

*

- * Copyright (C) 2000 Pierangelo Masarati, <ando@sys-net.it>
- * All rights reserved.

*

- * Permission is granted to anyone to use this software for any purpose
- * on any computer system, and to alter it and redistribute it, subject
- * to the following restrictions:

*

- * 1. The author is not responsible for the consequences of use of this
- * software, no matter how awful, even if they arise from flaws in it.

*

- * 2. The origin of this software must not be misrepresented, either by
- * explicit claim or by omission. Since few users ever read sources,
- * credits should appear in the documentation.

*

- * 3. Altered versions must be plainly marked as such, and must not be
- * misrepresented as being the original software. Since few users
- * ever read sources, credits should appear in the documentation.

*

* 4. This notice may not be removed or altered.

*

The OpenLDAP Public License

Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions in source form must retain copyright statements and notices,
- Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and
- 3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

1.23 openssl 1.0.1m :[19 Mar 2015]

1.23.1 Notifications:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.23.2 Available under license:

LICENSE ISSUES

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

```
* Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
* 3. All advertising materials mentioning features or use of this
   software must display the following acknowledgment:
  "This product includes software developed by the OpenSSL Project
   for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
   endorse or promote products derived from this software without
   prior written permission. For written permission, please contact
   openssl-core@openssl.org.
* 5. Products derived from this software may not be called "OpenSSL"
   nor may "OpenSSL" appear in their names without prior written
   permission of the OpenSSL Project.
* 6. Redistributions of any form whatsoever must retain the following
   acknowledgment:
  "This product includes software developed by the OpenSSL Project
  for use in the OpenSSL Toolkit (http://www.openssl.org/)"
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
```

*

- * This product includes cryptographic software written by Eric Young
- * (eay@cryptsoft.com). This product includes software written by Tim
- * Hudson (tjh@cryptsoft.com).

*

*/

Original SSLeay License

- /* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
- * All rights reserved.

*

- * This package is an SSL implementation written
- * by Eric Young (eay@cryptsoft.com).
- * The implementation was written so as to conform with Netscapes SSL.

*

- * This library is free for commercial and non-commercial use as long as
- * the following conditions are aheared to. The following conditions
- * apply to all code found in this distribution, be it the RC4, RSA,
- * lhash, DES, etc., code; not just the SSL code. The SSL documentation
- * included with this distribution is covered by the same copyright terms
- * except that the holder is Tim Hudson (tjh@cryptsoft.com).

*

- * Copyright remains Eric Young's, and as such any Copyright notices in
- * the code are not to be removed.
- * If this package is used in a product, Eric Young should be given attribution
- * as the author of the parts of the library used.
- * This can be in the form of a textual message at program startup or
- * in documentation (online or textual) provided with the package.

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:
- * 1. Redistributions of source code must retain the copyright
- * notice, this list of conditions and the following disclaimer.
- * 2. Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * 3. All advertising materials mentioning features or use of this software
- * must display the following acknowledgement:
- * "This product includes cryptographic software written by
- * Eric Young (eay@cryptsoft.com)"
- * The word 'cryptographic' can be left out if the rouines from the library
- * being used are not cryptographic related :-).
- * 4. If you include any Windows specific code (or a derivative thereof) from
- * the apps directory (application code) you must include an acknowledgement:
- * "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

*

- * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND
- * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
- * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
- * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
- * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
- * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
- * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
- * OUT OF THE USE OF THIS SOFTWARE. EVEN IF ADVISED OF THE POSSIBILITY OF
- * SUCH DAMAGE.

*

- * The licence and distribution terms for any publically available version or
- * derivative of this code cannot be changed. i.e. this code cannot simply be
- * copied and put under another distribution licence
- * [including the GNU Public Licence.]

*/

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com) All rights reserved.

This package is an Blowfish implementation written by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)

All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com). The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of that the SSL library. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

1.24 openssl 1.0.1j :[15 Oct 2014]

1.24.1 Notifications:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.24.2 Available under license:

LICENSE ISSUES

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

- * 1. Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

 * 2. Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in
 the documentation and/or other materials provided with the
 distribution.

 * 3. All advertising materials mentioning features or use of this
 software must display the following acknowledgment:
 "This product includes software developed by the OpenSSL Project
 for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 endorse or promote products derived from this software without
 - * prior written permission. For written permission, please contact
 - * openssl-core@openssl.org.

*

- * 5. Products derived from this software may not be called "OpenSSL"
- * nor may "OpenSSL" appear in their names without prior written
- * permission of the OpenSSL Project.

*

- * 6. Redistributions of any form whatsoever must retain the following
- * acknowledgment:
- * "This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit (http://www.openssl.org/)"

*

- * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY
- * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
- * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
- * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
- * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
- * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
- * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
- * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
- * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
- * OF THE POSSIBILITY OF SUCH DAMAGE.

* -----

*

- * This product includes cryptographic software written by Eric Young
- \ast (eay@cryptsoft.com). This product includes software written by Tim
- * Hudson (tjh@cryptsoft.com).

*

*/

Original SSLeay License

- /* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
- * All rights reserved.

*

- * This package is an SSL implementation written
- * by Eric Young (eay@cryptsoft.com).
- * The implementation was written so as to conform with Netscapes SSL.

*

- * This library is free for commercial and non-commercial use as long as
- * the following conditions are aheared to. The following conditions
- * apply to all code found in this distribution, be it the RC4, RSA,
- * lhash, DES, etc., code; not just the SSL code. The SSL documentation
- * included with this distribution is covered by the same copyright terms
- * except that the holder is Tim Hudson (tjh@cryptsoft.com).

*

- * Copyright remains Eric Young's, and as such any Copyright notices in
- * the code are not to be removed.
- * If this package is used in a product, Eric Young should be given attribution
- * as the author of the parts of the library used.
- * This can be in the form of a textual message at program startup or
- * in documentation (online or textual) provided with the package.

*

- * Redistribution and use in source and binary forms, with or without
- * modification, are permitted provided that the following conditions
- * are met:
- * 1. Redistributions of source code must retain the copyright
- * notice, this list of conditions and the following disclaimer.
- * 2. Redistributions in binary form must reproduce the above copyright
- * notice, this list of conditions and the following disclaimer in the
- * documentation and/or other materials provided with the distribution.
- * 3. All advertising materials mentioning features or use of this software
- * must display the following acknowledgement:
- * "This product includes cryptographic software written by
- * Eric Young (eay@cryptsoft.com)"
- * The word 'cryptographic' can be left out if the rouines from the library
- * being used are not cryptographic related :-).
- * 4. If you include any Windows specific code (or a derivative thereof) from
- * the apps directory (application code) you must include an acknowledgement:
- * "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

*

- * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND
- * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
- * ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
- * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
- * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
- * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
- * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
- * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
- * SUCH DAMAGE.

*

- * The licence and distribution terms for any publically available version or
- * derivative of this code cannot be changed. i.e. this code cannot simply be
- * copied and put under another distribution licence
- * [including the GNU Public Licence.]

*/

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com) All rights reserved.

This package is an Blowfish implementation written by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or

derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)

All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com). The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as the following conditions are aheared to. The following conditions apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of that the SSL library. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- 1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
- 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distrubution license [including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

1.25 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

1.25.1 Notifications:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.25.2 Available under license:

- /* crypto/aes/aes wrap.c */ /* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any * size keys (Implemented RFC5649) * Copyright (c) 2008 The OpenSSL Project. All rights reserved. * Redistribution and use in source and binary forms, with or without
- * 1. Redistributions of source code must retain the above copyright

* modification, are permitted provided that the following conditions

notice, this list of conditions and the following disclaimer.

* are met:

- * 2. Redistributions in binary form must reproduce the above copyright
- notice, this list of conditions and the following disclaimer in
- the documentation and/or other materials provided with the
- distribution.

- * 3. All advertising materials mentioning features or use of this
- * software must display the following acknowledgment:
- * "This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)"

*

- * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
- * endorse or promote products derived from this software without
- * prior written permission. For written permission, please contact
- * licensing@OpenSSL.org.

*

- * 5. Products derived from this software may not be called "OpenSSL"
- * nor may "OpenSSL" appear in their names without prior written
- * permission of the OpenSSL Project.

*

- * 6. Redistributions of any form whatsoever must retain the following
- * acknowledgment:
- * "This product includes software developed by the OpenSSL Project
- * for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

*

- * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS" AND ANY
- * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
- * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
- * PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
- * ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
- * SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
- * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
- * LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
- * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
- * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
- * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE. EVEN IF ADVISED
- * OF THE POSSIBILITY OF SUCH DAMAGE.

* ------

*/

1.26 openssl/crypto 1.0.1m :1

1.26.1 Available under license:

/* Copyright 2011 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

*

- * you may not use this file except in compliance with the License.
- * You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

- * Unless required by applicable law or agreed to in writing, software
- * distributed under the License is distributed on an "AS IS" BASIS,
- * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
- * See the License for the specific language governing permissions and
- * limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

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.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously

marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

- 2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
- 3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
- 4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and You must cause any modified files to carry prominent notices stating that You changed the files; and You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

- 6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
- 7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
- 8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
- 9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and

1.27 unbound 1.4.18

1.27.1 Available under license:

Copyright (c) 2009, Zdenek Vasicek (vasicek AT fit.vutbr.cz)
Marek Vavrusa (xvavru00 AT stud.fit.vutbr.cz)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the name of the organization nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2007, NLnet Labs. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the NLNET LABS nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009, Dmitriy Demidov aka terminus. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Dmitriy Demidov nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

1.28 zlib 1.2.3

1.28.1 Available under license:

version 1.2.3, July 18th, 2005

Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

- The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
- 2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
- 3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2015 Cisco Systems, Inc. All rights reserved.