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This document contains a list of open source software (OSS) components used within the product under the terms of the respective licenses. The source code corresponding to the open source components is also provided along with the product wherever mandated by the respective OSS license

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ACL	2.2.52	GNU Lesser General Public License v2.1 or later LGPL-2.1+ GPL-2.0+ Public-domain FSF GPL V3 or later with autoconf exception FSF - Configure Script GNU Libtool GPL-2.0+ with exception	<a href="https://savannah.nongnu.org/projects/acl">https://savannah.nongnu.org/projects/acl</a>	(C) 1999, 2000 Andreas Gruenbacher Copyright (C) 1999,2000,2002,2003,2007,2011 Andreas Gruenbacher Copyright (C) 2001-2002 Silicon Graphics, Inc Copyright (C) SuSE Linux AG Copyright (c) 2007, 2008 Andreas Gruenbacher.  Copyright (c) 2003-2006 Silicon Graphics, Inc.  Copyright (C) 2012 Free Software Foundation, Inc.
AES - Advanced Encryption Standard	1	zlib License	<a href="http://www.lomont.org/Software/Misc/AES/AES.php">http://www.lomont.org/Software/Misc/AES/AES.php</a>	Copyright (C) 2000-2005 Chris Lomont

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Coreutils-gplv2	6.9	GPL-2.0+ GFDL-1.2+ GPL-2.0+ with autoconf exception FSF Curl Component license GNU MP Library file license BSD 4 Clause with Advertising clause omitted BSD-3 Clause ISC LGPL-2.1+ GPL-2.0+ with bison exception cut-down "BSD license" LGPL-2.0+ Public-domain Makefile FSF license MIT X11 GFDL-1.2 Curl Component license GPL-2.0 GNU gettext support file license Public domain GPL V3 or later with autoconf exception FSF - Configure Script GFDL V1.3 or later FSF without royalty		Copyright 2007 Free Software Foundation, Inc. Copyright (C) 2004, 2006 Simon Josefsson
dash	0.5.8	BSD-3 Clause Public-domain Makefile FSF license GPL-2.0+ GPL-1.0+ MIT-Matt Johnston and Mihnea Stoenescu GPL v3 or later with Bison exception FSF FSF - Configure Script GNU Libtool GPL-2.0+ with exception		Copyright (c) 2007 Herbert Xu ;herbert@gondor.apana.org.au Copyright (c) 1999 Main code: Adam Rogoyski;rogoyski@cs.utexas.edu; Etc: Dave Cinege ; dcinege@psychosis.com Copyright (c) 1995 The Regents of the University of California. Copyright (C) 2012 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium

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		GPL-2.0+ with autoconf exception	
dlt-daemon	2.16	MPL-2.0 MIT FSF without royalty	copyright Copyright © 2017 Advanced Driver Information Technology. Copyright 2010 Lennart Poettering Copyright (C) 2011-2015, BMW AG Copyright (C) 2011-2012, BMW AG – Alexander Wenzel
dpkg	1.18	GPL-2.0+ Public-domain GPL-2.0 Curl Component license GNU MP Library file license MIT-Matt Johnston and Mihnea Stoenescu ISC MIT - Eric Haszlkiewicz MIT- Matt Johnston Zlib license FSF GPL V3 or later with autoconf exception X11 GNU Libtool GPL-2.0+ with exception GPL-2.0+ with autoconf exception GNU gettext support file license LGPL-2.0+ Makefile FSF license FSF - Configure Script	© 2011 Kees Cook © 2010-2011 Raphaël Hertzog © 2007, 2008 Frank Lichtenheld © 2007 Guillem Jover" © 2005 Scott James Remnant" © 2001 Wichert Akkerman" © 2001 Joey Hess" © 1997,1998 Charles Briscoe-Smith med " flera." © 1996 Kim-Minh Kaplan" © 1995, 1996 Erick Branderhorst" Copyright © Colin Watson ; Copyright © 2015 Guillem Jover Copyright © 2014 Nir Soffer Copyright © 2011 Matt Kraai &lt; kraai@ftbfs.org>; Copyright © 2011 Linaro Limited Copyright © 2010 Oxan van Leeuwen Copyright © 2009 Romain Francoise Copyright © 2009 Chris Coulson Copyright © 2009 Canonical Ltd. Copyright © 2008 Zack Weinberg Copyright © 2008 Samuel Thibault Copyright © 2008 Pierre Habouzit Copyright © 2008 James Westby Copyright © 2008 Frank Lichtenheld Copyright © 2008 Andreas Pahlsson Copyright © 2007-2015 Guillem Jover Copyright © 2007, 2008 Tollef Fog Heen Copyright © 2007 Nicolas François Copyright © 2007 Don Armstrong Copyright © 2007 Colin Watson

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findutils	4.2.3 1	GPL-2.0+ GNU Copyright statement -Verbatim copies FSF GPL-2.0 GPL v3 or later with Bison exception Curl Component license LGPL-2.0+ GNU gettext support file license Public domain GPL V3 or later with autoconf exception Public-domain LGPL-2.1 Makefile FSF license FSF - Configure Script GPL-2.0+ with autoconf exception X11	Copyright © 2006 Free Software Foundation, Inc.
glib2.0	2.50. 2	LGPL-2.0+ Red Hat, Inc License BSD-3 Clause LGPL-2.1+ AFL-2.0 FSF MIT - Dmitry Matveev Antoine Jacoutot BSD-3 University of Cambridge GPL-2.0+ LGPL-2.0+ GAsyncQueue license LGPL-2.1+ BSD-3 PCRE License Valgrind License GBSearchArray License GPL-2.0+ with autoconf exception GNU NLS utilities package License LGPL-2.1+ MIT - Petri Lehtinen FSF GNU MP Library file license GPL V3 or later with autoconf exception FSF - Configure Script Public-domain X11 GNU Libtool GPL-2.0+ with exception	Copyright © 2015 Patrick Griffis Copyright © 2015 Collabora, Ltd. Copyright © 2015 Canonical Limited Copyright © 2014 NICE s.r.l. Copyright © 2013 Lars Uebernickel Copyright © 2012-2015 Dan Nicholson Copyright © 2012,2013 Colin Walters Copyright © 2011 William Hua Copyright © 2011 Ryan Lortie Copyright © 2011 Red Hat, Inc Copyright © 2011 Nokia Corporation Copyright © 2010 Novell, Inc. Copyright © 2010 Codethink Limited Copyright © 2010 Christian Persch Copyright © 2009-10 Sam Thursfield Copyright © 2006 Ubuntu Georgian Translators. Copyright © 2004 Scott James Remnant Copyright © 2002-2016 the glib authors. Copyright © 2001-2016 Free Software Foundation, Inc. Copyright © 1998-2011 Tim Janik, Red Hat, Inc. Copyright © 1995-2011 Peter Mattis, Spencer Kimball, Josh MacDonald, Sebastian Wilhelmi and others. Copyright 2016 Endless Mobile, Inc.

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init-system-helpers	1.29	GPL-2.0+ GPL-2.0 BSD-3 Clause LGPL-2.1+ GPL-2.0+ FSF - Configure Script LGPL-2.0+ Curl Component license Public-domain GNU MP Library file license		© 2013-2014 Michael Stapelberg Copyright (c) 2000,2001 Henrique de Moraes Holschuh  Copyright (C) 2014 Ondřej Surý Copyright (C) 2008 Canonical Ltd. Copyright (C) 2006 Red Hat, Inc. (c) 2003 Software in the Public Interest
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libcap-ng	0.7.7	LGPL-2.1+ GPL-2.0+ with autoconf exception GPL-2.0+ Public-domain Makefile FSF license FSF GPL V3 or later with autoconf exception FSF - Configure Script X11 GNU Libtool GPL-2.0+ with exception		Copyright 2015 Red Hat Inc., Durham, North Carolina. Copyright 2009-2015 Steve Grubb ;sgrubb@redhat.com; Copyright 1992-2014 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium
libcap2	2.24	BSD-3 Clause LGPL-2.0+ GPL-2.0+		Dual License - BSD - 3 Clause & GPL-2.0  Copyright: 2014, Daniel Baumann ; mail@daniel-baumann.ch; opyright: 2010 Serge Hallyn ; serue@us.ibm.com; Copyright: 2006, Matt Kern ;matt.kern@undue.org; Copyright: 1998 Finn Arne Gangstad ;finnag@guardian.no; opyright: 1997-2014 Andrew G. Morgan ;morgan@linux.kernel.org Copyright (C) 1997 Aleph One Copyright (C) 1989, 1991 Free Software Foundation,
libffi	3.2.1	MIT MIT - Petri Lehtinen MIT - Eric Haszlkiewicz GPL-2.0+ Public-domain GPL V3 or later with autoconf exception GPL-2.0+ with autoconf exception FSF GNU MP Library file license FSF - Configure Script X11 GNU Libtool GPL-2.0+ with exception GPL V3 with Tex exception		Copyright @copyright{} 2008, 2010, 2011 Red Hat, Inc. Copyright 1992-2013 Free Software Foundation, Inc. Copyright (c) 2014 Sebastian Macke ;sebastian@macke.de; Copyright (c) 2014 Anthony Green Copyright (c) 2013 The Written Word Inc. Copyright (c) 2013 Tensilica, Inc. Target configuration macros for XTENSA. Copyright (c) 2013 Synopsys, Inc. (www.synopsys.com) Copyright (c) 2013 Miodrag Vallat. ;miod@openbsd.org; Copyright (c) 2013 Mentor Graphics. Copyright (c) 2012, 2013 Xilinx, Inc Copyright (c) 2012 Tilera Corp. Copyright (c) 2012 Thorsten Glaser Copyright (c) 2012 Alexandre K. I. Copyright (c) 2012 Alan Hourihane Copyright (c) 2011 Timothy Wall

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libgcrypt20	1.6.5	LGPL-2.1+ FSF GNU MP Library file license Public-domain MIT- Matt Johnston BSD 3 clause CSFRNG  GPL-2.0+ GPL-2.0 LGPL-2.1 GPL-2.0-with-autoconf-exception X11 GNU Libtool GPL-2.0+ with exception Internet society License cut-down "BSD license" Curl Component license BSD 3 Clause-Todd C. Miller ISC MIT		Dual License LGPL-2.1+ & BSD 3 clause CSFRNG  Copyright © 2013 Jussi Kivilinna ;jussi.kivilinna@iki.fi> Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999. Copyright © 2012, 2013 g10 Code GmbH Copyright 2011 Free Software Foundation, Inc. Copyright (c) 2012 Intel Corporation Copyright (c) 1996 L. Peter Deutsch Copyright (C) The Internet Society (1998). Copyright (C) 2013-2015 Jussi Kivilinna Copyright (C) 2013-2014 Dmitry Eremin-Solenikov Copyright (C) 2013 Christian Grothoff Copyright (C) 2012 Simon Josefsson Niels Möller Copyright (C) 2006-2007 NTT Copyright (C) 2003 Nikos Mavroyanopoulos Copyright (C) 1997 Werner Koch Copyright (C) 1996-2006 Peter Gutmann, Matt Thomlinson and Blake Coverett
libpgp-error	1.21	LGPL-2.1+ GPL-2.0+ FSF Public-domain GNU gettext support file license GPL-2.0 BSD-3-Clause FSF - Configure Script GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception X11		Copyright: 2001-2004, 2010, 2012-2014 , g10 Code GmbH Copyright © 2009 Free Software Foundation,  Copyright (C) 2014 Jedi Lin Copyright (C) 1995-1997, 2000-2007, 2009-2010 by Ulrich Drepper Copyright (C) 1994 X Consortium

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		GNU Libtool GPL-2.0+ with exception LGPL-2.0	
libseccomp	2.3.1	GPL-2.0 LGPL-2.1 Public-domain Makefile FSF license GPL-2.0+ GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception X11 GNU Libtool GPL-2.0+ with exception MIT - Petri Lehtinen Curl Component license FSF LGPL-2.0+ FSF - Configure Script	Copyright: 2013 Vitaly Shukela ; vi0oss@gmail.com; Copyright: 2012 Paul Moore pmoore@redhat.com; Copyright: 2012 Kees Cook ;kees@debian.org; Copyright: 2006 Bob Jenkins ; bob_jenkins@burtleburtle.net; Copyright IBM Corp. 2012 Author: Corey Bryant ; coreyb@linux.vnet.ibm.com; Copyright 1992-2015 Free Software Foundation, Inc. Copyright (c) 2016 Helge Deller ;deller@gmx.de; Copyright (c) 2015 Mathias Krause ;minipli@googlemail.com; Copyright (c) 2015 Freescale ;bogdan.purcareata@freescale.com; Copyright (C) 2015 Canonical Ltd. Copyright (C) 1994 X Consortium
libselinux	2.4	Zlib licens Public-domain GNU MP Library file license GPL-2.0 MIT - Petri Lehtinen	© 2005, 2006, Manoj Srivastava srivasta@debian.org; Copyright: 2004 Red Hat, Inc., James Morris ;jmorris@redhat.com;
libstdc++-v3		FSF GPL V3 or later with GCC Runtime Library Exception	Copyright (c) 2001, 2002, 2003 Peter Dimov and Multi Media Ltd. Copyright (c) 1998 Silicon Graphics Computer Systems, Inc. Copyright (c) 1994 Hewlett-Packard Company Copyright (C) 2015 Free Software Foundation, Inc.


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libx11	1.6.3	Tektronix License FSF GPL-2.0+ with autoconf exception FSF - Configure Script Public-domain Makefile FSF license GNU Libtool GPL-2.0+ with exception ISC Open Group ISC FUJITSU LIMITED Digital Equipment Corporation ISC TOSHIBA Corp Tektronix, Inc. License ISC IBM License MIT - Digital Equipment Corporation License ISC X11 ISC Digital Equipment License ISC Open Group MIT HPND Freeware		Copyright © 2009 Red Hat, Inc. Copyright © 2006 Josh Triplett ;josh@freedesktop.org; Copyright © 2006 Jamey Sharp ;sharpone@debian.org; Copyright © 2005 Keith Packard Copyright © 2005 David Nusinow ;dnusinow@debian.org; Copyright © 2005 Daniel Stone ;daniel@fooishbar.org; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright © 1994 X Consortium Copyright © 1985, 1986, 1987, 1988, 1989, 1991 Digital Equipment Corporation&lt; Copyright \co 2000 The XFree86 Project, Inc. Copyright \co 1990, 1991 by Tektronix, Inc. Copyright IBM Corporation 1993 Copyright 2009, 2010, Oracle and/or its affiliates. Copyright 2000 by Bruno Haible Copyright 1999 Oracle and/or its affiliates. Copyright 1996, 1998 The Open Group Copyright 1995 by FUJITSU LIMITED Copyright 1993, 1994 by the Sony Corporation Copyright 1990, 1991 by OMRON Corporation Copyright 1988 by Wyse Technology, Inc., San Jose, Ca.,
libxau	1.0.8	GPL-2.0 X11 Public-domain Makefile FSF license FSF GPL V3 or later with autoconf exception FSF - Configure Script GPL-2.0+ GPL-2.0+ with autoconf exception GNU Libtool GPL-2.0+ with exception		Copyright © 2005 David Nusinow ;dnusinow@debian.org; Copyright © 2005 Daniel Stone ;daniel@fooishbar.org; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright © 2003 Keith Packard, Noah Levitt Copyright 2005 Red Hat, Copyright 1998-2005, 2007 Branden Robinson Copyright 1997 Mark Eichin Copyright 1996 Stephen Early Copyright 1992-2013 Free Software Foundation, Inc. Copyright 1988, 1998 The Open Group Copyright (c) 2010, Oracle and/or its affiliates. Copyright (c) 2009 Steven G. Johnson ;stevenj@alum.mit.edu;


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libxcb	1.11.1	GPL V3 or later with autoconf exception GPL-2.0+ with autoconf exception GNU Libtool GPL-2.0+ with exception X11 Public-domain GPL-2.0+ FSF Makefile FSF license FSF - Configure Script		Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright 2005 Red Hat, Inc Copyright 1992-2014 Free Software Foundation, Inc. Copyright (c) 2009 Steven G. Johnson ;stevenj@alum.mit.edu; Copyright (c) 2009 Mike Frysinger ;vapier@gentoo.org; Copyright (c) 2009 Matteo Frigo Copyright (c) 2005, 2006, Oracle and/or its affiliates. Copyright (C) 2001-2008 Bart Massey and Jamey Sharp. Copyright (C) 1994 X Consortium
libxdmcp	1.1.2	ISC Open Group GPL-2.0 X11 MIT NTP Public-domain Makefile FSF license FSF GPL-2.0+ with autoconf exception FSF - Configure Script GNU Libtool GPL-2.0+ with exception GPL-2.0+ ISC License		Copyright © 2005 David Nusinow ;dnusinow@debian.org; Copyright © 2005 Daniel Stone ;daniel@fooishbar.org; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright © 2003 Keith Packard, Noah Levitt Copyright 2005 Red Hat, Copyright 1998-2005, 2007 Branden Robinson Copyright 1997 Mark Eichin Copyright 1996 Stephen Early Copyright 1992-2014 Free Software Foundation, Inc. Copyright 1989, 1998 The Open Group Copyright 1989 Network Computing Devices, Inc., Mountain View, California. Copyright (c) 2013, Oracle and/or its affiliates. Copyright (c) 2009 Steven G. Johnson ; stevenj@alum.mit.edu; Copyright (c) 2009 Mike Frysinger ; vapier@gentoo.org; Copyright (c) 2009 Matteo Frigo




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pam	1.1.8	BSD-3 Clause Public-domain X11 GPL-2.0+ MIT GPL-2.0+ with autoconf GNU Libtool GPL-2.0+ with exception Curl Component license FSF FSF - Configure Script MIT - Theodore Ts'o BSD-3 Clause LGPL-2.0+ Beerware BSD style Wietse Venema license GPL-2.0		Dual License - GPL-2.0+ & BSD - 3 Clause  Copyright © 2010 Free Software Foundation, Inc. Clytie Siddall ;clytie@riverland.net.au; , 2007-2010 Copyright © 2007, 2008 Red Hat, Inc. Red Hat author: Miloslav Trmač ;mitr@redhat.com; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright Theodore Ts'o, 1996. Copyright Alexander O. Yuriev, 1999 Copyright 2004 by Sam Hartman Copyright 1999 by Ben Collins Copyright 1995 by Wietse Venema. Copyright 1994, 1995, 1996 Olaf Ki Copyright 1989 - 1994, Julianne Frances Haugh Copyright (c) Red Hat, Inc., 2009 Copyright (c) Jan Rêkorajski, 1999. Copyright (c) Cristian Gafton 1996. Copyright (c) Alex O. Yuriev, 1996. Copyright (c) 2007 Steve Langasek Copyright (c) 2005 Darren Tucker Copyright (C) Theodore Ts'o, 1996. Copyright (C) 2008 Canonical Ltd. Copyright (C) 1995-1997, 2000-200 by Ulrich Drepper Copyright (C) 1996, 1997, 1999 Cris Gafton Copyright (C) 1999 Ben Collins Copyright (C) 2009 Deng Xiyue Copyright (c) 2001-2002 Andrew Morgan Copyright (c) 2009 Thorsten Kukuk

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pcre3	8.38	BSD-3-Clause BSD-2-Clause BSD-3 University of Cambridge FSF GPL-2.0+ with autoconf exception FSF - Configure Script GPL-2.0+ Public-domain X11 GNU Libtool GPL-2.0+ with exception GPL V3 or later with autoconf exception Makefile FSF license BSD-3 Google		Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright 2013-2013 Tilera Corporation(jiawang@tilera.com). Copyright 2009-2012 Zoltan Herczeg (hzmester@freemail.hu). Copyright 2003 and onwards Google Inc. Author: Sanjay Ghemawat Copyright 1992-2014 Free Software Foundation, Inc. Copyright (c) 2011 Daniel Richard G. ;skunk@iSKUNK.ORG; Copyright (c) 2008 Steven G. Johnson ;stevenj@alum.mit.edu; Copyright (c) 2001, Alexander Tokarev Copyright (C) 1994 X Consortium (c) 2010-2015 Zoltan Herczeg (c) 2001 Peter S. Voronov aka Chem O'Dun ;petervrn@yahoo.com;
procps	3.3.10	GPL-2.0+ LGPL-2.0+ GPL-2.0 LGPL-2.0 LGPL-2.1+ GPL v3 or later with Bison exception Curl Component license GPL-2.0+ with autoconf exception FSF Public-domain GNU gettext support file license verbatim manual 3 license Makefile FSF license FSF - Configure Script GNU Libtool GPL-2.0+ with exception		copyright 2002 Albert Cahalan Copyright: 2013 Jaromir Capik ; jcapik@redhat.com; Copyright: 2011 Sami Kerola ; kerolasa@iki.fi; Copyright: 2002-2014 James C. Warner Copyright: 2000 Kjetil Torgim Homme ;kjetilho@ifi.uio.no; 2002,2006 Albert Cahalan 2012 Roberto Polli ;rpolti@babel.it; Copyright: 1999 George Staikos Copyright: 1997-2015 Craig Small ;csmall@debian.org; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright 2004 Nicholas Miell. Copyright 1996-2003 Free Software Foundation, Inc. Copyright 2003 Robert Love Copyright 1996 Charles L. Blake. Copyright 1994 by Henry Ware ;al172@yfn.ysu.edu;. Copyright (c) Dec 1993, Oct 1994 Steve "Mr. Bassman" Bryant bassman@hpbbs30.bbn.hp.com Copyright (c) 2011-2014, by: James C. Copyright (c) 1995 Martin Schulze ; joey@infodrom.north.de; Copyright (c) 1993 Larry Greenfield Copyright (C) 1998 Miquel van Smoorenburg. Copyright (C) 1998 Michael K. Johnson Copyright (C) 1994 Henry Ware ;

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				al172@yfn.ysu.edu;
systemd	232	GPL-2.0+ MIT LGPL-2.1+ GPL-2.0 GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception Public domain LGPL-2.0+ FSF - Configure Script		Copyright abandoned, 2000, Niels Kristian Bech Jensen ;nkbj@image.dk; Copyright Tom Gundersen ;teg@jklm.no; Copyright 2016 Zeal Jagannatha Copyright 2016 Zbigniew Jędrzejewski-Szmek Copyright 2016 Susant Sahani Copyright 2016 Michal Soltys ;soltys@ziu.info; Copyright 2016 Michael Karcher Copyright 2016 Lennart Poettering Copyright 2016 Julian Orth Copyright 2016 Jan Synáček Copyright 2016 Gabor Kelemen Copyright 2016 Djalal Harouni Copyright 2016 Andreas Rammhold ;andreas@rammhold.de; Copyright 2016 Alexander Shopov ;ash@kambanaria.org; Copyright 2015, 2016 Viktor Vaŭčkievič Copyright 2015 Zbigniew Jędrzejewski-Szmek Copyright 2015 Werner Fink Copyright 2015 Tom Gundersen Copyright 2015 Ronny Chevalier Copyright 2015 Rafael Ferreira Copyright 2015 Lennart Poettering Copyright 2015 Jeff Huang Copyright 2015 Filipe Brandeburger Copyright 2015 David Herrmann ; dh.herrmann@gmail.com; Copyright 2015 Daniel Mack Copyright 2015 Chris Morgan Copyright 2015 Canonical Copyright 2015 Boyuan Yang Copyright 2014 Vinay Kulkarni

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		GFDL V1.1+ GFDL-1.2+ LGPL-2.1+ GPL-1.0+		
util-linux	2.27.1	LGPL-2.1+ GPL-2.0+ Public-domain BSD-4-Clause-UC GPL-2.0 ISC Zlib license GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception FSF MIT - Eric Haszlkiewicz Curl Component license Makefile FSF license GNU MP Library file license BSD 3 Clause-Theodore Ts'o BSD-3 Clause MIT- Matt Johnston GPL-1.0+ FSF - Configure Script X11 BSD - 4 Clause Regents of the University of California GNU Copyright statement -Verbatim copies GNU Libtool GPL-2.0+ with exception LGPL-2.0+ MIT		copyright (c) 1997-2005 by Frodo Looijaard frodo@frodo.looijaard.name; Copyright: Guy Maor Copyright: 2013, Red Hat, Inc. Copyright: 2010, 2011 Davidlohr Bueso ;dave@gnu.org; Copyright: 2010 Lennart Poettering Copyright: 2009-2014 Karel Zak Copyright: 2005 Jens Axboe ; jens@axboe.dk; Copyright: 2004 Robert Love Copyright: 2003-2005 H. Peter Anvin Copyright: 2003, 2004, 2005 Thorsten Kukuk Copyright: 2001 Andreas Dilger Copyright: 2000-2001 Gunnar Ritter Copyright: 1999, 2001 Andries Brouwer Copyright: 1996, 2003 Rickard E. Faith (faith@acm.org) Copyright: 1991, 1992 Linus Torvalds Copyright: 1987 Regents of the University of California Copyright © Michael Piefel Copyright © Karel Zak ; kzak@redhat.com; 2014 Copyright © 2014 Benjamin Weis ;benjamin.weis@gmx.com; Mario Blättermann ; mario.blaettermann@gmail.com;; 2014, 2015. Philipp Thomas ; pth@suse.de;; 2014, 2015. Copyright © 2012 Arun Persaud ; arun@nubati.net; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;; Copyright © 2004 Nilgün Belma Bugüner. Copyright © 2013-2014 Lauri Nurmi ;lanurmi@iki.fi; Lauri Nurmi ; lanurmi@iki.fi;

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Acl	2.2.52	LGPL-2.1+ GPL-2.0+ GPL V2 or later with autoconf exception GNU Libtool GPL v2 or later with exception LGPL-2.1 FSF - Configure Script		Copyright (C) 2011 Andreas Gruenbacher Copyright (C) 1989, 1991-2012 Free Software Foundation, Inc. Copyright (c) 2000-2006 Silicon Graphics, Inc.
Appar mor	2.13.23co8ba1	GPL-2.0 LGPL-2.1 Canonical Ltd License Novell Inc. and Canonical Ltd License GPL-2.0+ GPL V2 or later with autoconf exception Public-domain GNU Libtool GPL v2 or later with exception FSF - Configure Script		<b>Dual License - BSD - 3 Clause &amp; GPL v2</b>  Copyright 2017 Canonical Ltd. Copyright (C) 2015-2018 Christian Boltz Copyright: 2012 Collabora Ltd Copyright (C) 2009 John Dong Copyright (C) 2006 Volker Kuhlmann Copyright: 1998-2010 Novell/SuSE/Immunix Copyright (C) 2011 Novell/SUSE Copyright (c) 2005-2010 Novell, Inc 2002, 2003, 2004 SuSE GmbH




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Coreutils- glibc	6.9- 0co1 1b a1	GPL-2.0+ Public-domain GPL V2 or later with autoconf exception GFDL-1.2+ GPL-2.0 BSD-3-Clause GFDL-1.2 ISC FSF X11 LGPL-2.1+ GPL-2.0+-with- bison-exception Public domain GPL V2 or later with texinfo exception FSF - Configure Script		Copyright 1991-2004 Miquel van Smoorenburg Copyright 1989, 1991-2016 Free Software Foundation, Inc. Copyright (c) 1996-1999 by Internet Software Consortium. Copyright (c) 1990, 1993, 1994 The Regents of the University of California. All rights reserved. Copyright (C) 2004, 2006 Simon Josefsson Copyright (C) 2000-2005 Pavel Roskin <proski@gnu.org>; Initially written by Tom Tromey <tromey@cygnus.com>; Completely rewritten by Pavel Roskin <proski@gnu.org>; Copyright (C) 1997, 1998, 1999 Colin Plumb. Copyright (C) 1995-1997, 2000- 2006 by Ulrich Drepper <drepper@gnu.ai.mit.edu>; Copyright (C) 1994, 1995, 1997, 1998, 1999, 2000 H. Peter Anvin Copyright (C) 1994 X Consortium Copyright (C) 1984 David M. Ihnat
cryptsetup	2.0.6	GPL-2.0+ LGPL-2.1+ CC0-1.0 Apache-2.0 Public-domain GPL-2.0 Freeware FSF CC-BY-SA-3.0 CC-BY-SA-4.0		© 2018 Erik Nellesen © 2016-2018 Guilhem Moulin © 2015 Samuel Neves © 2015 Jean-Philippe Aumasson © 2015 Dmitry Khovratovich © 2010-2018 Milan Broz © 2009,2014 Peter Lebbing © 2008-2018 Red Hat, Inc. © 2005-2006 Michael Gebetsroither © 2004-2008 Clemens Fruhwirth Copyright: © 2015-2018 Guilhem Moulin Copyright: © 2015 Thomas Pornin

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dash	0.5.1 0.2 - 4ba1	BSD-3-Clause GPL-2.0+ Public-domain GPL V2 or later with autoconf exception X11 FSF - Configure Script		Copyright (c) 2007 Herbert Xu <herbert@gondor.apana.org.au>. Copyright (c) 1997 Christos Zoulas. Copyright (c) 1995 The Regents of the University of California. Copyright (C) 2012 Free Software Foundation, Inc. Copyright (C) 2011 Zlatan Todoric <zlatan.todoric@gmail.com>; ,2011. Copyright (C) 2011 Slavko



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dbus-glib	4.2.0	AFL-2.1 GPL-2.0+ GPL V2 or later with autoconf exception Dual license - GPL-2.0+ & LGPL-2.1+ GPL V3 or later with autoconf exception GNU Libtool GPL v2 or later with exception X11 Public-domain FSF - Configure Script		<b>Dual License - AFL-2.1 &amp; GPL-2.0+          Dual license - GPL-2.0+ &amp; LGPL-2.1+</b>  Copyright (C) 1994-2017 Free Software Foundation, Inc. Copyright © 2011 Nokia Corporation Copyright (C) 2003-2004 Lawrence E. Rosen. Copyright (C) 2002, 2003 CodeFactory AB Copyright Act, 17 U.S.C. Â§ 101 et seq., the equivalent laws of other countries, and international treaty. Copyright © 2006 Steve Frécinaux Copyright (C) 2003 James Henstridge 2004-2007 Damon Chaplin 2007-2017 Stefan Sauer Copyright © 2010-2012 Mike Gorse Copyright © 2009-2018 Collabora Ltd. © Lureau <marcandre.lureau@gmail.com> Copyright (C) 2008 David Zeuthen Copyright (C) 2004 Ximian, Inc. Copyright (C) 2003 James Henstridge 2007-2017 Stefan Sauer Copyright (C) 1994 X Consortium Copyright © 2012-2015 Dan

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Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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

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

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

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.

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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:

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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!

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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.

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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.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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.

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

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

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.

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

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

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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.


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Home Page: <http://github.com/Label305/Stan-for-Android/>

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#### **3.1.41 doT - 1.0.1**

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#### **3.1.42 JQuery: 2.0.3**

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Home Page: [http://rubygems.org/gems/jquery\\_mobile\\_rails](http://rubygems.org/gems/jquery_mobile_rails)

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#### **3.1.44 SafeSlinger-Android - 1.8.3-messenger**

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Home Page: <http://github.com/geraldonetto/bsdiff/>

Home Page: <http://www.daemonology.net/bsdiff/>

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- The hard-coding of config options in opensslconf.h.
- The addition of compile-time
- 
- 
- s to remove dependencies of the C stio library and on Win32 UI.
- The addition of compile-time checks to remove filename strings from release binaries.

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```
printf("%s",png_get_copyright(NULL));
```

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Glenn Randers-Pehrson  
glennrp at  
users.sourceforge.net  
September 10, 2009

### **3.2.10 libzip**

The following copyrights apply to libzip.

#### **3.2.10.1 Dieter Baron and Thomas Klausner (see the files zip.h and zipint.h):**

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This file is part of libzip, a library to manipulate ZIP archives.

The authors can be contacted at <libzip@nih.at>

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Adapted from NetBSB libc by Dieter Baron

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#### **3.2.10.4 RealVNC modifications to libzip**

The open source component used by *VNC Automotive* consists of the lib subdirectory of libzip 0.9, plus two variants on the corresponding config.h template. Three modifications have been made, as follows:

- libzip.vcproj has been added.
- On Windows, in libzip.h and zipint.h, no-op ZIP\_EXTERN so that we build for linking statically.
- On Windows, in mkstemp.c, pid\_t and S\_ISDIR have been defined, and io.h and process.h included.

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2006-Jan-25.2.

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#### **3.2.19.5 RealVNC modifications to libxml2**

This is libxml2-2.9.1. Some small changes have been made to allow it to build for QNX and

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### **3.2.20.3 RealVNC modifications to**

**miniupnpc** The following modifications

have been made:

- Requests have been cancelled.
- MirrorLink-specific functionality has been added.
- Functionality specific to building for different hardware architectures has been added.

### **3.2.21 LibTomCrypt**

LibTomCrypt, modular cryptographic library -- Tom St Denis

LibTomCrypt is a library that provides various cryptographic algorithms in a highly modular and flexible manner.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://libtomcrypt.com>

### **3.2.22 LibTomMath**

LibTomMath, multiple-precision integer library -- Tom St Denis

LibTomMath is a library that provides multiple-precision integer arithmetic as well as number theoretic functionality.

The library was designed directly after the MPI library by Michael Fromberger but has been written from scratch with additional optimizations in place.

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Tom St Denis, tomstdenis@gmail.com, <http://math.libtomcrypt.com>

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Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

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### **3.2.28.1 RealVNC modifications to WPA Supplicant**

RealVNC has applied the following patch:

<http://w1.fi/cgiit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408>

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### **3.2.28.2 ath9k\_faf1dc64\_backport.patch**

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### **3.2.28.3 python-psutil\_2.1.3.bb**

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### **3.2.30 VNC Wi-Fi Display i.MX6 sample decoder**


The information in this section expands upon that summarized in section 6.2, *VNC Wi-Fi Display i.MX6 sample decoder*.

### **3.2.31 mxcfb.h**

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### **3.2.32 axTLS**

axTLS Embedded SSL

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### 3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.

## 3.3 gpclib

<http://github.com/rdpeng/gpclib/>

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## 3.4 Anti-Grain Geometry

Version Unspecified

<http://sourceforge.net/projects/vector-agg/>

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## 3.5 Android - platform - frameworks - base

Version android-7.0.0\_r1

<https://android.googlesource.com/platform/frameworks/base>

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### **3.6 Android - platform - frameworks - base**

Version Unspecified

<https://android.googlesource.com/platform/frameworks/base>

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### **3.7 Boost C++ Libraries - boost**

Version Unspecified

<http://boost.org/>


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### **3.8 gecko-dev**

Unspecified

<http://github.com/mozilla/gecko-dev/>

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### **3.9 libogg**

Unspecified

<http://xiph.org/ogg/>

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### **4.0 Opus**

Unspecified

<http://opus-codec.org>

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### **4.1 Speex**

1.2beta2 dev

<http://www.speex.org/>

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### **4.2 wosh**

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<http://code.google.com/p/wosh/>

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### **4.3 jsoncpp**

Version

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<http://sourceforge.net/projects/jsoncpp/>

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### **4.4 libxml2**

Version

Unspecified

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### **4.5 pugixml**

Version

Unspecified

<http://pugixml.org/>

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### **4.6 SQLite**

Version Unspecified

<http://www.sqlite.org/>

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### **4.7 Sunrise/set calculator**

Version Unspecified

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<https://stjarnhimlen.se/comp/sunriset.c>

Public Domain

#### **4.8 tiny-AES128-C**

Version master-20141218

<http://github.com/kokke/tiny-AES128-C/>

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#### **4.9 PVRTC Library**

Version Unspecified

<https://www.imgtec.com/developers/powervr-sdk-tools/installers/>

copyright unknown

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#### **5.0 GSM 06.10 Lossy Speech Compression**

Version Unspecified

<http://kbs.cs.tu-berlin.de/~jutta/toast.html>

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<https://github.com/timothytylee/libgsm/blob/master/COPYRIGHT>

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## **5.1 Curl and Libcurl**

Version Unspecified

<http://github.com/curl/curl/>

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## **5.2 aladdin-md5**

Version Unspecified

<https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html>

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## **5.3 OpenGL-Examples**

Version master-20141123

<http://github.com/progschj/OpenGL-Examples/>

Copyright (c) 2012 Jakob Progsch

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## 5.4 SDL

Version 2.0

<http://www.libsdl.org/index.php>

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## 5.5 SDL\_gfx

Version Unspecified

<http://sourceforge.net/projects/sdlgfx/>

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## 5.6 zlib

Version 1.2.11 <http://www.zlib.net/>

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## 5.7pkgconf

Version Unspecified

<http://github.com/pkgconf/pkgconf/>

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## 5.7 Code Project - C++ Memory Pool

Version 1.0

<http://www.codeproject.com/KB/cpp/MemoryPool.aspx>

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## **5.9 GStreamer**

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