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 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

Table of Contents

1	List of used Open Source Components.	7
2	Appendix - License Text	134
2.1	BSD-4-Clause (University of California-Specific)	134
2.2	Academic Free Licensev. 2.1.....	135
2.3	Academic Free License v1.1.....	137
2.4	Apache License 1.1	139
2.5	Apache License 2.0	140
2.6	Apple Public Source License 1.1	143
2.7	Artistic License 1.0	149
2.8	BSD 2-clause "Simplified" License.....	152
2.9	BSD 3-clause "New" or "Revised" License.....	152
2.10	BSD-4-Clause (University of California-Specific)	153
2.11	Bzip2 License	153
2.12	Expat License.....	154
2.13	Fine Free File Command License	155
2.14	Freetype Project License	155
2.15	GCC Runtime Library Exception 3.1 to GPL 3.0	157
2.16	GNU General Public License v2.0 only	166
2.17	GNU General Public License v2.0 or later	171
2.18	GNU General Public License v3.0 or later with Bison exception 2.2	178
2.19	GNU Lesser General Public License v2.1 only.....	186
2.20	GNU Library General Public License v2 or later.....	194
2.21	ICU License.....	201
2.22	ISC License	202
2.23	Independent JPEG Group License	202
2.24	Info-ZIP Updated License.....	205
2.25	MFi Licenseing Program	206
2.26	MIT License.....	207
2.27	Mozilla Public License 2.0.....	207
2.28	OSF - X Consortium License.....	212
2.29	OpenSSL Combined License	213
2.30	OpenSceneGraph Public License, Version 0.0	215
2.31	PCRE 5 License	221
2.32	Public Domain.....	222
2.33	Python License 2.0	222
2.34	TCP Wrappers License	223
2.35	Copyleft-next 0.3.0.....	223
2.36	curl License.....	225
2.37	libpng License.....	226
2.38	libtheora License	228
2.39	libtiff License	228
2.40	zlib License	229
2.41	Boost Software License - Version 1.0.....	230
2.43	Unicode License.....	230
2.44	FreeImage Public License - Version 1.0	231
2.45	Unicode License for Data Files and Software	236
2.46	Lua 5.0 license	238
2.47	NeuQuant Neural-Net Quantization Algorithm License	238
2.48	License for Delaunay-Triangulation	238

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

2.49	Eclipse Public License 1.0	239
2.50	LGPL 2.1 or later with Qt Company LGPL Exception version 1.1	242
2.51	Stunnel GPL 2.0 with Exception License	242
2.52	BSD-like license (libktx)	249
2.53	UTM.....	251
2.54	Eclipse Distribution License - v 1.0.....	251
2.55	OpenScene Graph	251
2.56	OSGEMATH SOFTWARE LICENSE	257
3.	Other Open Source Dependencies:	260
3.1.1	X Windows - XFree86 1.9.....	260
3.1.2.	Zlib - 1.1.4.....	260
3.1.3.	OpenSSL - 0.9.8x.....	260
3.1.4.	SHA	260
3.1.5.	AES	260
3.1.6.	EAX.....	261
3.1.7.	Expat - 2.0.1.....	261
3.1.8.	Libpng - 1.2.40.....	261
3.1.9.	Libzip - 0.9	261
3.1.10.	JPEG - 6b.....	261
3.1.11	Libjpegturbo - 1.2.1	261
3.1.12	GCC libstdc++ - 4.1.2	262
3.1.13	Keysymdef.....	262
3.1.14	Endian	262
3.1.15	JRTPLIB - 3.9.1	262
3.1.16	JThread - 1.3.1	262
3.1.17	Portaudio - 1.9	262
3.1.18	Libxml2 - 2.9.1	262
3.1.19	Miniupnpc - 1.5	262
3.1.21	LibTomCrypt - 1.16	263
3.1.22	LibTomMath - 0.39.....	263
3.1.23	Base64.java - 2.3.5.2.	263
3.1.24	Internal Android OS APIs.....	263
3.1.25	ExtractMpeg FramesTest. java	263
3.1.26	Libupnp (pupnp) - 1.6.19.....	263
3.1.27	Libxml2 - 2.9.1	264
3.1.28	OpenSSL - 0.9.8x.....	264
3.1.29	Wpa_supplicant - 2.3.....	264
3.1.30	Pythonpsutil_2.1.3.bb.....	264
3.1.31	Android SupportLibraries - 19.0.0	264
3.1.33	axTLS - 1.1.8	264
3.1.34	Action - 0.1.1.....	265
3.1.35	Android - platform - frameworks – base - 4.0.1_r1.....	265
3.1.36	Android - platform - prebuilts – sdk - 4.4_r1.....	265
3.1.37	Android SDK Support Libraries – 19,23.1.1	265
3.1.38	Android SDK Support Libraries	265
3.1.39	Mongolduu - master-20121109.....	265
3.1.40	Stan-for-Android - 0.1.0.....	265
3.1.41	doT - 1.0.1.....	266
3.1.42	JQuery: 2.0.3	266
3.1.43	jquery_mobile_rails - 1.3.2	266

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

3.1.44 SafeSlinger-Android - 1.8.3-messenger.....	266
3.1.45 OpenSSL	266
3.1.46 CRC32	266
3.1.47 SHA-1 in C	266
3.1.48 SyncML C Toolkit - 4.0.3.....	267
3.1.49 CMarkup - 11.05	267
3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition	267
3.1.51 LZO real-time data compression library - 2.04.....	267
3.1.52 UCL Data Compression Library - 1.03.....	267
3.1.53 Android - platform - bootable – recovery - 4.0.1_r1.....	267
3.1.54 Android - platform - bootable – recovery - 5.0.0_r1.....	267
3.1.55 Android - platform - bootable – recovery - 2.3_r1	267
3.1.56 Android - platform - system – core - 4.2	267
3.1.57 File system in Userspace - 2.8.7	268
3.1.58 lz4 Compression algorithm - r111	268
3.1.59 Android -platform - system - core/libmincrypt.....	268
3.1.60 lucy search engine – lucy - 0.6.0.....	268
3.1.61 NetBSD - 1.4	268
3.1.62 Open BSD - 4.5	268
3.1.63 Bsdiff - 4.3	268
3.1.64 GNU C Library – glibc - 2.2.4	268
3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0.....	269
3.1.66 squashfs - a compressed fs for Linux - squashfs4.3	269
3.1.67 File system in User space - 2.9.3	269
3.1.68 Libdivsufsort - 2.0.0	269
3.1.69 Test-SQLite-blob - trunk-20120916-svn.....	269
3.1.70 7 Zip - LZMA SDK - 9.2	269
3.1.71 7-Zip - 7-Zip -3.11	269
3.1.72 CRC32 MIT.edu	269
3.1.73 XZ Utils -5.0.7	269
3.1.74 Zlib - 1.2.3.....	270
3.1.75 Android - platform – dalvik - 2.1_r1.....	270
3.1.76 gpclib	270
3.1.77 Anti-Grain Geometry.....	270
3.1.78 Android - platform - frameworks - base.....	270
3.1.79 Android - platform - frameworks - base.....	271
3.1.80 Boost C++ Libraries - boost	271
3.1.81 gecko-dev.....	272
3.1.82 libogg	272
3.1.83 Opus	272
3.1.84 Speex	272
3.1.85 wosh	272
3.1.86 jsoncpp	273
3.1.87 libxml2	273
3.1.88 pugixml	273
3.1.89 SQLite	273
3.1.91 tiny-AES128-C	274
3.1.92 PVRTC Library.....	274
3.1.93 GSM 06.10 Lossy Speech Compression	274

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

3.1.94 Curl and Libcurl	275
3.1.95 aladdin-md5.....	275
3.1.96 OpenGL-Examples	275
3.1.97 SDL	276
3.1.96.1 SDL_gfx	276
3.1.96.2 zlib	276
3.1.98pkgconf	276
3.1.99 Code Project - C++ Memory Pool	276
3.1.100 OpenSSL	280
3.1.101 Alsa Libraries.....	280
3.1.102 GStreamer	280
3.2 Licensing, copyright, acknowledgements, and modifications	280
3.2.1 X Windows.....	280
3.2.1.1 The Open Group.....	280
3.2.1.2 Digital Equipment Corporation	281
3.2.1.3 Digital Equipment Corporation - Panoramix components.....	282
3.2.2 Zlib.....	282
3.2.3 OpenSSL	283
3.2.3.1 The OpenSSL Project	283
3.2.3.2 Eric Young.....	285
3.2.3.3 RealVNC modifications to OpenSSL.....	286
3.2.4 SHA	286
3.2.4.1 Dr Brian Gladman	286
3.2.4.2 Cameron Rich	287
3.2.5 AES	288
3.2.6 EAX	288
3.2.7 libjpeg-turbo	289
3.2.8 expat.....	290
3.2.9 libpng.....	291
3.2.10 libzip	293
3.2.10.2 Free Software Foundation	294
3.2.10.4 RealVNC modifications to libzip	295
3.2.11 FreeType.....	296
3.2.11.1 Definitions	296
3.2.11.2 No Warranty	296
3.2.11.3 Redistribution.....	297
3.2.11.4 Advertising	297
3.2.12 LodePNG	297
3.2.13 GCC libstdc++	298
3.2.14 keysymdef	298
3.2.15 Endian.....	299
3.2.16 JRTPLIB	300
3.2.17 JThread.....	300
3.2.18 portaudio	301
3.2.19 libxml2.....	301
3.2.19.1 License.....	302
3.2.19.2 hash.c	302
3.2.19.3 list.c	302
3.2.19.4 trio.c, trio.h.....	303
3.2.19.5 RealVNC modifications to libxml2	303

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

3.2.20.1	Copyright notice	303
3.2.20.2	License.....	303
3.2.21	LibTomCrypt	305
3.2.22	LibTomMath.....	305
3.2.23	Base64.java	305
3.2.24	Internal Android OS APIs	305
3.2.25	ExtractMpegFramesTest.java	306
3.2.26	libupnp (pupnp).....	306
3.2.27	libudev	308
3.2.28	WPA Supplicant	308
3.2.28.2	ath9k_faf1dc64_backport.patch.....	309
3.2.28.3	python-psutil_2.1.3.bb.....	310
3.2.29	Android Support Libraries	310
3.2.30	VNC Wi-Fi Display i.MX6 sample decoder	311
3.2.31	mxcfb.h.....	311
3.2.32	axTLS	311

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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Name of OSS Component	Version of OSS Component	Name and Version of License (License text can be found in Appendix below)	Home page	More Information
7 Zip - LZMA SDK	9.2	Public Domain	http://www.7-zip.org/sdk.html	Copyright (C) 1999-2005, 2016 Igor Pavlov Copyright (C) 2007-2009 Industrie Dial Face S.p.A.
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	https://savannah.nongnu.org/projects/acl	(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.
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 BOSCH	OSS Attribution Document	DATE
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Alsa Plugins	1.0.29	GNU Lesser General Public License v2.1 or later	ftp://ftp.alsa-project.org/pub/plugins/	Copyright (c) 2008 by Sjoerd Simons Copyright (c) 2006 by Pierre Ossman
Alsa Utils	1.0.29	GNU General Public License v2.0 or later	ftp://ftp.alsa-project.org/pub/Utils	Copyright (c) by Abramo Bagnara Copyright (c)1999-2000,2008,2010 by Jaroslav Kysela Copyright (C) 2003 Greg Kroah-Hartman Copyright (C) 2004-2006 Kay Sievers Copyright (c)2004-2006 Clemens Ladisch Copyright (c) 1998,1999 Tim Janik Copyright (c) 1874 Lewis Carroll Copyright (C) 2008-2010 SlimLogic Ltd Copyright (C) 1999-2000,2003 by Takashi Iwai Copyright (C) 2000-2004 James Courtier-Dutton Copyright (C) 2005 Nathan Hurst
Android - platform - bootable - recovery	Unspecified	Apache License 2.0	http://developer.android.com/index.html	Copyright: 2007 The Android Open Source Project
apitrace	7.1	MIT License	http://github.com/apitrace/apitrace/	Copyright 2009,2010,2013,2014,2015,2016 Google Inc Copyright 2012,2013 Intel Corporation Copyright 2010-2016 VMware, Inc Copyright 2011-2014 Jose Fonseca Copyright 2011 LunarG, Inc Copyright 2015 Alexander Trukhin Copyright 2013 Samsung Contributed by Eugene Velesevich Copyright 2006 Keith Packard and Carl Worth Copyright 2011 Zack Rusin, Copyright 2004 IBM Corporation

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py2cairo	1.10. 0	GNU Lesser General Public License v2.1 or later	http://cairographics.org/pycairo/	This component is a part of Cairo Vector Graphics Library which is already identified with a version 1.12.14. Hence this is separately identified as py2cairo with version 1.10.0.

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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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hostname	3.16	GPL-2.0+	.	Copyright (C) 2009 Michael Meskes meskes@debian.org; Copyright (C) 2004-2005 Graham Wilson graham@debian.org; Copyright (C) 1997 Peter Tobias ;tobias@et-inf.fho-emden.de; Copyright (C) 1997 Bernd Eckenfels Copyright (C) 1996 Free Software Foundation, Inc
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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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,
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libgpg-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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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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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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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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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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sysvinit	2.88	GPL-2.0+ GPL-2.0 GNU MP Library file license Public-domain		Copyright © 2009 Free Software Foundation, Inc. Copyright on this file 1998 Danek Duvall. Copyright 1997-2005 Miquel van Smoorenburg ;miquels@cistron.nl; Copyright (c) 2006 Red Hat, Inc. Copyright (C) 2012 sysvinit & Joe Hansen. Copyright (C) 2012 Martin Bagge ;brother@bsnet.se; Copyright (C) 2011 THE sysvinit'S COPYRIGHT HOLDER Copyright (C) 2010 Michael Krapp Copyright (C) 2005 Miquel van Smoorenburg. Copyright (C) 1991-1996 Cistron Electronics.
tar-gplv2	1.17	GPL-2.0+ GPL-2.0+ with tex exception GPL-2.0+ with autoconf exception Curl Component license LGPL-2.0 BSD-1980 Regents of the University of California Public-domain MIT- Matt Johnston GPL-2.0+ with bison exception MIT GNU gettext support file license GPL V2 only LGPL-2.0+ GPL V3 or later with autoconf exception FSF - Configure Script Makefile FSF license GNU Libtool GPL-2.0+ with exception BSD-4-Clause-UC GFDL-1.2		Copyright © 2004 Free Software Foundation, Inc.

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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 Haszlagiewicz 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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xz-utils	5.1	Public-domain GPL-2.0+ GPL V3 or later with autoconf exception GPL-2.0 FSF XZ Utils Licensing LGPL-2.1 FSF without royalty		© 2007-2008 Free Software Foundation, Inc. © 2006 Timo Lindfors 2005, Charles Levert 2005, 2009, Lasse Collin 2009 , Andrew Dudman Other-Authors: Paul Eggert, Ulrich Drepper Copyright: © 2008, Steven G. Johnson ;stevenj@alum.mit.edu; Copyright: © 1997-2007 by Dimitri van Heesch Copyright: © 1993, Jean-loup Gailly Copyright: 2010, Marek Černocký 2010, Andre Noll 2011, Adrien Nader License: PD This file is put in the public domain. Copyright: 2010, Daniel Mealha Cabrita Copyright: 2009-2012, Jonathan Nieder Copyright: 2009-2010, Lasse Collin Copyright: 2009, 2010, Gruppo traduzione italiano di Ubuntu-it 2010, Lorenzo De Liso 2009, 2010 , 2011, Milo Casagrande 2011, Jakub Bogusz Copyright (C) 2005 Philipp Benner.

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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		Dual License - BSD - 3 Clause & GPL v2 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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libzstd	1.3.8+d fsg3 ba1	GPL-2.0 BSD-3-Clause BSD-2-Clause Zlib GPL-2.0+ MIT Public-domain		Dual License - BSD - 3 clause & GPL-2.0 Copyright (c) 2016-present, Yann Collet, Facebook, Inc. Copyright (c) 2016-present, Facebook, Inc. Copyright (c) 2016-present, Przemyslaw Skibinski, Yann Collet, Facebook, Inc. Copyright (C) 2010-2016 Free Software Foundation, Inc. Copyright (c) 1995-2006, 2011 Jean-loup Gailly Copyright (c) 2017 Phillip Lougher Copyright (c) 2016 Tino Reichardt Copyright (C) 2004-2017 Mark Adler Copyright (c) 2003 Thomas Klausner. Copyright (c) 2003-2008 Yuta Mori Copyright: 2015-2016 Kevin Murray Copyright: 2003-2008, Yuta Mori
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 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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2.15 GCC Runtime Library Exception 3.1 to GPL 3.0

GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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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.

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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.

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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.

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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.

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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.

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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.

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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one line to give the library's name and an idea of what it does.

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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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[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

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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

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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.

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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.)

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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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.

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.

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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.

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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Written by: Philip Hazel {ph10@cam.ac.uk}

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019

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3.1.11 Libjpegturbo - 1.2.1

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3.1.15 JRTPLIB - 3.9.1

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3.1.17 Portaudio - 1.9

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3.1.21 LibTomCrypt - 1.16

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3.1.22 LibTomMath - 0.39

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3.1.23 Base64.java - 2.3.5.2.

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3.1.24 Internal Android OS APIs

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3.1.25 ExtractMpeg FramesTest. java

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3.1.26 Libupnp (pupnp) - 1.6.19

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3.1.29 Wpa_supplicant - 2.3

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3.1.30 Pythonpsutil_2.1.3.bb

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3.1.31 Android SupportLibraries - 19.0.0

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3.1.33 axTLS - 1.1.8

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3.1.34 Action - 0.1.1

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3.1.35 Android - platform - frameworks – base - 4.0.1_r1

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3.1.36 Android - platform - prebuilts – sdk - 4.4_r1

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3.1.37 Android SDK Support Libraries – 19,23.1.1

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Drools:: Scorecards - 5.5.0.Final

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3.1.39 Mongolduu - master-20121109

Home Page: <http://github.com/tugstugi/mongolduu/>

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3.1.40 Stan-for-Android - 0.1.0

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3.1.42 JQuery: 2.0.3

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3.1.43 jquery_mobile_rails - 1.3.2

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3.1.44 SafeSlinger-Android - 1.8.3-messenger

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3.1.45 OpenSSL

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3.1.46 CRC32

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3.1.49 CMarkup - 11.05

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3.1.51 LZO real-time data compression library - 2.04

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3.1.59 Android -platform - system - core/libmincrypt

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3.1.60 lucy search engine – lucy - 0.6.0

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3.1.63 Bsdiff - 4.3

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

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3.1.69 Test-SQLite-blob - trunk-20120916-svn

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3.1.70 7 Zip - LZMA SDK - 9.2

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3.1.75 Android - platform – dalvik - 2.1_r1

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3.1.76 gpclib

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

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3.1.78 Android - platform - frameworks - base

Version android-7.0.0_r1

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3.1.80 Boost C++ Libraries - boost

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

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3.1.91 tiny-AES128-C

Version master-20141218

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

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3.1.92 PVRTC Library

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3.1.93 GSM 06.10 Lossy Speech Compression

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

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3.1.95 aladdin-md5

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

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3.1.96 OpenGL-Examples

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

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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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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

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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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3.2.12 LodePNG

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3.2.13 GCC libstdc++

This is not in our source delivery, but is statically linked in to our binary deliveries from the specified version of GCC. See <http://gcc.gnu.org/libstdc++> or <http://gcc.gnu.org/releases.html> for more information.

3.2.14 keysymdef

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3.2.18 portaudio

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3.2.19 libxml2

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3.2.19.2 hash.c

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3.2.19.4 trio.c, trio.h

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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 Android.

3.2.20 miniupnpc

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Project web page: <http://miniupnp.free.fre/> or <http://miniupnp.tuxfamily.org/>

Author: Thomas Bernard

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3.2.20.3 RealVNC modifications to

miniupnpc The following modifications

have been made:

- Requests have been cancelled.

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- 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.

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

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

3.2.23 Base64.java

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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.

3.2.24 Internal Android OS APIs

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3.2.25 ExtractMpegFramesTest.java

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3.2.26 libupnp (pupnp)

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3.2.27 libudev

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3.2.28.1 RealVNC modifications to WPA Supplicant

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<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

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3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.

 BOSCH	OSS Attribution Document	DATE
CM-CI1	CM_CI1_RN_AIVI_Scope3.x	6th –Dec-2019