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Sl.No	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
1.	fastlz	0.1.0	MIT License	http://code.google.com/p/fastlz/	Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)
2.	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	http://sourceforge.net/projects/libmd5-rfc/	Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved
3.	sqlite3	3.7.5	Public Domain	http://rubygems.org/gems/sqlite3	
4.	AES - Advanced Encryption Standard	1.0	zlib License	http://www.lomont.org/Software/Misc/AES/AES.php	2000-2005 Chris Lomont
5.	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or later	ftp://ftp.alsa-project.org/pub/lib	2010 Red Hat Inc.
6.	Android - platform - bootable - recovery	NA	Apache License 2.0	http://developer.android.com/index.html	2007 The Android Open Source Project
7.	asn1c	0.9.27	BSD 2-clause "Simplified" License	http://github.com/vlm/	Copyright © 2004, 2006 Lev Walkin

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				asn1c/	<vlm@lionet.info>. All rights reserved, Copyright © 2003, 2004 X/IO Labs, xiolabs.com
8.	Boost C++ Libraries - boost	1.58.0, 1.57.0	Boost Software License 1.0	http://boost.org/	Rene Rivera 2008-2013 Microsoft Corporation 2014 Franz Detro 2014
9.	Cairo Vector Graphics Library	1.14.2	GNU Lesser General Public License v2.1 or later	http://cairographics.org/introduction	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	ConnMan	1.35	GNU General Public License v2.0 only	http://connman.net/	2007-2012 Intel Corporation. All rights reserved.
11.	curl	7.59.0, 7.52.1	curl License	https://curl.haxx.se/	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
12.	CVTUTF	1.0	Unicode License	http://www.unicode.org/Public/PROGRAMS/CVTUTF	2001 Unicode, Inc. http://unicode.org/
13.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDBus	2003 CodeFactory AB
14.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/openil/	2000-2009 by Denton Woods, 2001 David Galeano
15.	ECNR	NA	Academic Free License v2.1		2010 © MontaVista Software, LLC.
16.	Filesystem in Userspace	2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects/fuse/	2001-2007 Miklos Szeredi

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17.	Fontconfig	2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig	2001 Keith Packard
18.	Free Image	3.15.4	FreelImage Public License v1.0	http://freeimage.sourceforge.net/	1991-1998, Thomas G. Lane.
19.	FreelImage	3.17.0	FreelImage Public License v1.0	http://sourceforge.net/projects/freeimage/	1994 Anthony Dekker
20.	GCC	5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	http://gcc.gnu.org/	2004-2013 Free Software Foundation, Inc
21.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	http://www.gnome.org/	2003 The Free Software Foundation
22.	GENIVI Audio Manager	3.2,1.1, 4.2	Mozilla Public License 2.0	https://www.ohloh.net/p/genivi-audio-manager	2012 Continental Automotive Systems, Inc,2012, BMW AG
23.	GENIVI Diagnostic Log and Trace Daemon	2.16.0	Mozilla Public License 2.0	http://projects.genivi.org/diagnostic-log-trace/	2011-2015, BMW AG
24.	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	http://projects.genivi.org/ivi-layer-management	2010,2011 BMW Car IT GmbH, 2012, NVIDIA CORPORATION
25.	GLib	2.0.0	GNU Library General Public	http://library.gnome.org/devel/glib	2010 Codethink Limited

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26.	Glib	2.32.4, 2.44.1	GNU Library General Public License v2 or later	http://devel oper.gnome .org/glib/	2010 Codethink Limited
27.	GNU C Library - glibc	2.22,2. 19	GNU Lesser General Public License v2.1 or later	http://www .gnu.org/sof tware/libc/li bc.html	2007-2013 Free Software Foundation, Inc.1983, 1989, 1993 The Regents of the University of California. All rights reserved.
28.	GStreamer	0.10.36 , 0.10	GNU Library General Public License v2 or later	http://gstre amer.freede sktop.org/m odules/	1999,2000 Erik Walthinsen <omega@cse.ogi.edu> 2000 Wim Taymans <wtay@chello.be>
29.	HarfBuzz	1.3.1, 1.0.2, 0.9.18	MIT License	http://freed esktop.org/ wiki/Softwa re/HarfBuzz	2007 Chris Wilson ,2009,2010 Red Hat, Inc. 2011,2012 Google, Inc
30.	ICU - International Components for Unicode	NA, 55.1, 4.6.1	ICU License	http://www - 306.ibm.co m/software /globalizatio n/icu/index. jsp	Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved. Copyright 2007 Google Inc. All Rights Reserved
31.	International Components for Unicode - ICU4C	4.6.1	ICU License	http://sourc eforge.net/ projects/icu /	1991-2011 Unicode
32.	IPTables	1.4.21	GNU General Public License v2.0 or later	http://www .netfilter.or g/	Copyright (C) 2016 Robert Bosch Car Multimedia Gmb H
33.	JSON-C	0.12.0	MIT License	http://oss. metaparadi gm.com/jso n-c/	Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd. Michael Clark <michael@metaparadigm. com>

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34.	jsoncpp	1.7.7	MIT License	http://sourceforge.net/projects/jsoncpp/	2007-2010 Baptiste Lepilleur,
35.	Khronos Group - OpenGL ES	3.0, 2.0	MIT License	http://www.khronos.org/opengles/	2007-2013 The Khronos Group Inc; Confirmed By:Schoenfelder, Thorsten (ADITG/SW2) [tschoenfelder@de.adit-jv.com]
36.	Kmod	4	GNU Lesser General Public License v2.1 or later	https://www.kernel.org/pub/linux/utils/kernel/kmod/	2011-2013 ProFUSION embedded systems
37.	Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	http://sites.google.com/site/fullycapable/	Copyright (C) 1997 Aleph One Copyright (C) 1997-8,2008 Andrew G. Morgan <morgan@kernel.org>
38.	libblkid	NA	GNU Lesser General Public License v2.1 or later	http://linux.die.net/man/3/libblkid	Copyright (C) 2001 Andreas Dilger Copyright (C) 2003 Theodore Tso Copyright (C) 2008 Karel Zak <kzak@redhat.com>
39.	libdrm	2.4.46, 2.4.62	MIT License	http://dri.freedesktop.org/wiki/	2013-2014 Mentor Graphics 1999 Precision Insight, Inc., Cedar Park, Texas. 2000 VA Linux Systems, Inc., Sunnyvale, California. All rights reserved. 2007 Dave Airlie <airlied@linux.ie>

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40.	libgrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org	Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH
41.	Libgpg-error Lib	1.12, 1.19	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org/	Copyright (C) 2003, 2004, 2010, 2013 g10 Code GmbH
42.	libjpeg	9a,8b, 8d,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1994-1997, Thomas G. Lane
43.	libmtp	1.1.6, 1.1.5	GNU Library General Public License v2 or later	http://sourceforge.net/projects/libmtp/	Copyright (C) 2005-2012 Linus Walleij <triad@df.lth.se> Copyright (C) 2005-2008 Richard A. Low <richard@wentnet.com> Copyright (C) 2007 Ted Bullock <tbullock@canada.com> Copyright (C) 2008 Florent Mertens <flomertens@gmail.com>
44.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	http://www.infradead.org/~tgr/libnl/	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
45.	libsigc++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsigc.c.sourceforge.net/	2002, The libsigc++ Development Team
46.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	http://www.mega-nerd.com/libsndfile/	Copyright (C) 1999-2011 Erik de Castro Lopo <erikd@mega-nerd.com>
47.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	https://bitbucket.org/sauerhaaken/libtaginfo/src/4c8c4f839907cd3773	2013 Jörn Magens

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48.	LIBUNIBREAK	2.1	zlib License	http://vimgadget.sourceforge.net/libunibreak/	2008-2011 Wu Yongwei, 2012 Tom Hacoen <tom@stosb.com>
49.	Libunwind	NA, 1.1	MIT License	http://savannah.nongnu.org/projects/libunwind/	(C) 2008 CodeSourcery Copyright (C) 2002-2004 Hewlett-Packard Co
50.	libusb	1.0, 1.0.19, 0.1.5	GNU Lesser General Public License v2.1 or later	http://libusb.org/	Copyright © 2001 Johannes Erdfelt <johannes@erdfelt.com> Copyright © 2007-2008 Daniel Drake <dsd@gentoo.org> Copyright © 2012 Pete Batard <pete@akeo.ie> Copyright © 2012 Nathan Hjelm
51.	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000, 2012 Bjorn Reese and Daniel Veillard
52.	Linux Kernel	3.14.79	GNU General Public License v2.0 only	http://www.kernel.org/	1999-2010 David Woodhouse, Linux Kernel Organization, Inc, Copyright (C) 2001 by Andreas Gruenbacher <a.gruenbacher@computer.org> Copyright © 2001-2002 Silicon Graphics, Inc. All Rights Reserved. Copyright © 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
53.	litehtml	NA	BSD 3-clause "New"	http://code.google.com	Copyright (C) 1994-1997,

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54.	Lua - Post 4.x	5.2.3,5.3.3	Lua 5.0 License	http://www.lua.org/	1994-2016 Lua.org, PUC-Rio
55.	lxc	NA	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008
56.	mDNSResponder	NA, 625.41.2	Apache License 2.0	http://github.com/Sha0/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved
57.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	https://launchpad.net/mosquitto	Copyright (c) 2010-2014 Roger Light <roger@atchoo.org>All rights reserved
58.	mosquitto: an mqtt message broker	1.4.13	Eclipse Public License 1.0	https://launchpad.net/mosquitto	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
59.	NeuQuant - Neural Image Quantization		NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~dekker/NEUQUANT.HTML	1994 Anthony Dekker
60.	OpenSSL	NA, 1.0.2n	OpenSSL Combined License	http://www.openssl.org/	Copyright (C) 1995-1998 Eric Young All rights reserved
61.	PNG reference library: libpng - libpng-stable	1.6.32, 1.6.19	libpng License	http://sourceforge.net/projects/libpng/	Copyright © 1998-2012 Glenn Randers-Pehrson Copyright © 1998-2013 Glenn Randers-Pehrson * Version 0.96 Copyright © 1996, 1997 Andreas Dilger Version 0.88 Copyright © 1995, 1996 Guy Eric Schalnat, Group 42, Inc

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63.	QRCode	0.0.1	MIT License	https://github.com/richardmoo/QRCode	Copyright © 2017 Richard Moore
64.	qt5	5.6.1	LGPL 2.1 or later with Qt Company LGPL Exception version 1.1	http://github.com/qtproject/qt5/	© 2015 The Qt Company Ltd.
65.	RBTree algorithm	NA	Public Domain	http://eternallyconfuzzled.com/tutorials/datastructures/jsw_tutorial_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
66.	RealVNC	NA	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
67.	SQLite	3.8.7.4, 3.13.0, 3.21.0, 3.26.0	Public Domain	http://www.sqlite.org/	
68.	systemd	NA, 225	GNU Lesser General Public License v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	2013 Lennart Poettering
69.	Tadween	1.0.4	MIT License	http://sourceforge.net/projects/tadween/	2009 Mohammad Arabix (mohammadhi at gmail dot com)
70.	TagLib Audio Meta-Data Library		GNU Lesser General Public License v2.1 or later	http://taglib.github.com/	2008 by Scott Wheeler

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2006-Jan-27

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Our home page can be found at

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2.18 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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(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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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.

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

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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.)

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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.

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

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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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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.)

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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.

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See also <http://members.ozemail.com.au/~dekker/NEUQUANT.HTML>

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3.1.22 LibTomMath - 0.39

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3.1.26 Libupnp (pupnp) - 1.6.19

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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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3.1.38 Android SDK Support Libraries

Drools:: Scorecards - 5.5.0.Final

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3.1.39 Mongolduu - master-20121109

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3.1.40 Stan-for-Android - 0.1.0

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3.1.44 SafeSlinger-Android - 1.8.3-messenger

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3.1.46 CRC32

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3.1.55 Android - platform - bootable – recovery - 2.3_r1

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3.1.63 Bsdiff - 4.3

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3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0


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3.1.66 squashfs - a compressed fs for Linux - squashfs4.3

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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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3.1.71 7-Zip - 7-Zip -3.11

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3.1.75 Android - platform – dalvik - 2.1_r1

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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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3.2.7 libjpeg-turbo

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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

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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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5.2.10.3 The Regents of the University of California (see the file mkstemp.c):

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.

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- On Windows, in mkstemp.c, pid_t and S_ISDIR have been defined, and io.h and process.h included.

3.2.11 FreeType

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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 miniupnp

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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

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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 WPA Supplicant

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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.