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XC_CI	XC_CI1_RN_AIVI_Scope 3.x	28th Sept 2021

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1 List of used Open Source Components.

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


SL No.	Name of OSS Component	Version of OSS Component	Name and Version of License (License text can be found in Appendix below)	
1	ACL	2.2.52	GNU Lesser General Public License v2.1 or later	https://savannah.nongnu.org/p
2	Alsa Libraries	1.1.8, 1.0.29	GNU Lesser General Public License v2.1 or later	http://www.alsa-project.org/
3	Alsa Plugins	1.1.8	GNU Lesser General Public License v2.1 or later	ftp://ftp.alsa-project.org/pub/p
4	Alsa Tools	1.1.5	GNU General Public License v2.0 or later	http://www.alsa-project.org/

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5	Alsa Utils	1.1.8	GNU General Public License v2.0 or later	http://www.alsa-project.org/
6	AppArmor Userspace Utilities	2.11.0	GNU General Public License v2.0 only	http://wiki.apparmor.net/index
7	Atomic_ops	7.4.0	MIT License	http://www.hpl.hp.com/research
8	Attr	2.4.47	GNU General Public License v2.0 or later	http://savannah.nongnu.org/projects/attr
9	Audit	2.7.6	GNU General Public License v2.0 or later	http://tracker.debian.org/pkg/audit
10	Bash	3.2.57	GNU General Public License v2.0 or later	http://www.gnu.org/software/bash/
11	BlueZ	5.48	GNU General Public License v2.0 or later	http://www.bluez.org/
12	Boost C++ Libraries - boost	1.67.0, 1.57.0	Boost Software License 1.0	http://sourceforge.net/projects/boost/

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13	BusyBox	1.30.1	GNU General Public License v2.0 only	http://www.busybox.net
14	Bzip2	1.0.6	Bzip2 License	http://www.bzip.org/
15	C Unit Testing Framework	2.1-3	GNU Library General Public License v2 or later	http://sourceforge.net/projects

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16	Crypto++	Unspecified	Public Domain	http://github.com/weidai11/cr
17	Cairo Vector Graphics Library	1.14.12	GNU Lesser General Public License v2.1 or later	http://cairographics.org/intro
18	Cairo-Pixman	0.38.4	MIT License	http://cairographics.org
19	Chkconfig	1.3.59	GNU General Public License v2.0 or later	https://fedorahosted.org/release
20	ConnMan	1.37	GNU General Public License v2.0 only	https://01.org/connman
21	Control Group Configuration - libcgroup	0.41	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects
22	Crypt::Curve25519	0.01	BSD 3-Clause "New" or "Revised" License	http://search.cpan.org/~ajgb/C

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23	ECNR	Unspecified	Academic Free License v2.1	
24	Developer's Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/
25	D-Bus	1.12.2, 1.0	GNU General Public License v2.0 or later	http://www.freedesktop.org/w
26	Darwin Source Repository - diskdev_cmds	332.25	Apple Public Source License 1.1	http://sourceforge.net/projects/
27	Digest::MD5	Unspecified	Public Domain	http://www.cpan.org/authors/
28	Dnsmasq	2.78	GNU General Public License v2.0 only	http://thekelleys.org.uk/dnsmasq
29	EXIF Tag Parsing Library - libexif	0.6.21	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/
30	Evtest	1.33	GNU General Public License v2.0 or later	http://cgit.freedesktop.org/evtest
31	Expat XML Parser - libexpat	2.2.6	MIT License	http://tracker.debian.org/pkg/expat
32	Expect	5.45.4	Public Domain	http://sourceforge.net/projects/

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33	Ext2 Filesystems Utilities	1.43.8	GNU General Public License v2.0 or later	http://e2fsprogs.sourceforge.net
34	FLAC-Free Lossless Audio Codec - flac-src	1.3.2	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects/flac
35	Filesystem in Userspace	2.9.7, 2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects/procps
36	Fine Free File Command	5.32-r0	Fine Free File Command License	http://www.darwinsys.com/file
37	FreelImage	3.17.0	FreelImage Public License v1.0	http://sourceforge.net/projects/freelimage
38	Fontconfig	2.12.6, 2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig
39	Das U-Boot - Universal Bootloader	2018.09	GNU General Public License v2.0 or later	https://github.com/u-boot/u-boot
40	7-Zip - LZMA SDK	9.2	Public Domain	http://sourceforge.net/projects/7zip
41	SELinux reference policies	20060307	GNU General Public License v2.0 or later	http://sourceforge.net/projects/selinux

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42	Kernel Configuration System	0.1.1	GNU General Public License v2.0 or later	http://savannah.nongnu.org/p
43	GCC C++ / libstdc++	7.3.1, 3.0, 5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	https://gcc.gnu.org/libstdc++/
44	GConf	3.2.6	GNU Library General Public License v2 or later	http://www.gnome.org/project
45	GDK-Pixbuf	2.36.11, 2.0	GNU Library General Public License v2 or later	http://www.gnome.org/
46	GENIVI Audio Manager	3.2, 1.1	Mozilla Public License 2.0	https://www.ohloh.net/p/genivi
47	GENIVI Diagnostic Log and Trace Daemon	2.18.4, 2.16.0	Mozilla Public License 2.0	http://projects.genivi.org/diagr
48	GENIVI IPC CommonAPI C++ DBus Runtime	3.1.12.4	GNU General Public License v2.0 or later	http://github.com/GENIVI/capi

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49	GENIVI IPC CommonAPI C++ Runtime	3.1.12.4	Mozilla Public License 2.0	http://projects.genivi.org/com
50	GENIVI IPC CommonAPI C++ Someip	3.1.12.11	Mozilla Public License 2.0	https://github.com/GENIVI/cap
51	GENIVI IVI Layer Management	1.2.0, 0.9.9	Apache License 2.0	http://projects.genivi.org/ivi-la
52	GENIVI Node Health Monitor	1.3.5	Mozilla Public License 2.0	https://github.com/GENIVI/no
53	GENIVI Node Startup Controller	1.0.3	Mozilla Public License 2.0	http://projects.genivi.org/node
54	GENIVI Node State Manager	2.0.0	Mozilla Public License 2.0	https://github.com/GENIVI/no
55	GLib	2.54.3, 2.44.1	GNU Lesser General Public License v2.1 only	http://tracker.debian.org/pkg/g
56	GMP - GNU Multiple Precision Arithmetic Library	4.2.1	GNU Lesser General Public License v2.1 or later	http://gmplib.org/
57	GNU C Library - glibc	2.27	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/

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58	GNU Diffutils	2.8.1	GNU General Public License v2.0 or later	http://www.gnu.org/software/
59	GNU Readline Library	5.2	GNU General Public License v2.0 or later	http://directory.fsf.org/GNU/re
60	GNU Tar	1.17	GNU General Public License v2.0 or later	http://www.gnu.org/software/
61	GNU grep	2.5.1a	GNU General Public License v2.0 or later	http://savannah.gnu.org/proje
62	GObject Introspection - A Middleware Layer	1.54.1	GNU Library General Public License v2 or later	https://wiki.gnome.org/Project
63	GPT fdisk	1.0.3	GNU General Public License v2.0 only	http://sourceforge.net/projects
64	GSSDP	1.0.2	GNU Library General Public License v2 or later	http://unix.freecode.com/proje
65	GSTREAMER PLUGINS-BAD	1.12.4	GNU Library General Public License v2 or later	http://gstreamer.freedesktop.c
66	GSTREAMER PLUGINS-BASE	1.12.4	GNU Library General Public	http://gstreamer.freedesktop.c

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			License v2 or later	
67	GSTREAMER PLUGINS-GOOD	1.12.4	GNU Library General Public License v2 or later	http://gstreamer.freedesktop.org/
68	half	1.11.0	MIT License	http://sourceforge.net/projects/
69	GStreamer	1.12.4, 1.0, 0.10	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/gstreamer

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70	GUPnP	1.0.2	GNU Library General Public License v2 or later	http://www.gupnp.org/
71	GUPnP-AV	0.12.10	GNU Library General Public License v2 or later	https://developer.gnome.org/g

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72	GUPnP-DLNA	0.10.5	GNU Library General Public License v2 or later	https://developer.gnome.org/g
73	Gawk	3.1.5	GNU General Public License v2.0 or later	http://www.gnu.org/software/
74	Gladman AES	12/9/2011	BSD 2-Clause "Simplified" License	https://github.com/traviscross/
75	Glib	2.60.3, 2.32.4	GNU Library General Public License v2 or later	https://developer.gnome.org/g
76	GnuPG	1.4.7	GNU General Public License v2.0 or later	http://www.gnupg.org/
77	GstOpenMAX	1.12.4	GNU Lesser General Public License v2.1 only	http://freedesktop.org/wiki/Gs
78	HFS Utilities	3.2.6	GNU General Public License v2.0 or later	http://www.mars.org/home/ro
79	HarfBuzz	1.7.5, 1.7.4, 1.0.2	MIT License	http://tracker.debian.org/pkg/l
80	IEEE 802.1d ethernet bridging	bridge-utils-1.6	GNU General Public License v2.0 or later	http://sourceforge.net/projects
81	IPTables	1.8.3	GNU General Public License v2.0 or later	http://www.netfilter.org/

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82	ISC BIND	9.11.12	Mozilla Public License 2.0	http://tracker.debian.org/pkg/
83	ISC DHCP	4.4.1	Mozilla Public License 2.0	https://www.isc.org/software/
84	Info-ZIP project - source-Zip_1	3	Info-ZIP Updated License	http://sourceforge.net/projects
85	International Components for Unicode - ICU4C	4.6.1, 60.2	ICU License	http://site.icu-project.org/
86	Intltool	0.51.0	GNU General Public License v2.0 w/Autoconf exception	http://www.gnome.org

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87	JSON-CPP	1.8.4, 1.7.7, 1.9.2	MIT License	http://github.com/open-source
88	Jam STAPL Byte-Code Player	2.2	Jam STAPL Software License	https://www.intel.com/content/ressources/download/legacy/jam
89	Khronos Group - OpenMAX	1.1.2, 3.0	MIT License	http://www.khronos.org/open
90	LIBUNIBREAK	2.1	zlib License	http://vimgadgets.sourceforge
91	Kmod	4, 25	GNU Lesser General Public License v2.1 or later	https://www.kernel.org/pub/li
92	LVM2	2.02.171	GNU Lesser General Public License v2.1 only	http://sourceware.org/lvm2/
93	LZO real-time data compression library	2.1	GNU General Public License v2.0 or later	http://www.oberhumer.com/o
94	Lib Cap	2.24, 2.25	GNU General Public License v2.0 or later	http://sites.google.com/site/fu
95	LibYAML	0.2.2	MIT License	http://pyyaml.org/wiki/LibYAM
96	Libconfig - Configuration File Library_1	1.5	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/l
97	Libgee	0.20.1	GNU Lesser General Public License v2.1 or later	https://wiki.gnome.org/action/
98	Libgpg-error Lib	1.27	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org/

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99	Libtiff	4.0.9	libtiff License	http://www.libtiff.org/
100	Libunwind	1.2.1	MIT License	http://savannah.nongnu.org/projects/libunwind
101	Lilv	0.24.2	ISC License	http://drobilla.net/software/lilv/
102	Linux Diagnostic Tools - sysfsutils	2.1.0	GNU General Public License v2.0 only	http://sourceforge.net/projects/linux-diagnostic-tools
103	Linux DiskQuota	4.04	GNU General Public License v2.0 only	http://sourceforge.net/projects/linux-diskquota
104	Lua - Post 4.x	5.2.3, 5.3.3	Lua 5.0 License	http://www.lua.org/
105	Linux Kernel	4.14.235	GNU General Public License v2.0 only	http://www.kernel.org/
106	Linux PTP	1.8	GNU General Public License v2.0 or later	http://linuxptp.sourceforge.net/
107	lxc - lxc	Unspecified	GNU Lesser General Public License v2.1 only	http://github.com/lxc/lxc/
108	Linux Resource Containers	2.1.1	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/linux-resource-containers

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109	Lz4 Command Line Interface	r128	GNU General Public License v2.0 or later	https://github.com/lz4/lz4/tree
110	Mesa3D - MesaLib	17.1.17	MIT License	http://mesa3d.sourceforge.net
111	MessagePack	2.1.5	Boost Software License 1.0	http://github.com/msgpack/ms
112	Music-DSP	Unspecified	Public Domain	http://www.musicdsp.org/arch
113	NFS - nfs-utils	2.1.1	GNU General Public License v2.0 or later	http://sourceforge.net/projects
114	NTFS-3G Read/Write Driver	2017.3.23	GNU General Public License v2.0 or later	http://www.tuxera.com/comm

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115	Ne10	1.2.1	BSD 3-Clause "New" or "Revised" License	http://github.com/projectNe10
116	NeuQuant - Neural Image Quantization	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au
117	Netlink Protocol Library Suite (libnl)	3.4.0	GNU Lesser General Public License v2.1 only	http://tracker.debian.org/pkg/libnl
118	Netscape Portable Runtime	4.19	Mozilla Public License 2.0	http://www.mozilla.org/projects
119	Nettle	2.7.1	GNU Lesser General Public License v2.1 or later	http://www.lysator.liu.se/~niss
120	ORC - The Oil Runtime Compiler	0.4.28	BSD 2-Clause "Simplified" License	https://gstreamer.freedesktop.org

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121	Open Scene Graph	3.2.3, 3.2.0	OpenSceneGraph Public License, Version 0.0	http://www.openscenegraph.org
122	Open-AVB	v1.1	BSD 3-Clause "New" or "Revised" License	http://github.com/AVnu/Open
123	pugixml	1	MIT License	http://github.com/zeux/pugixml
124	poly2tri	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/poly2tri
125	osgearth	Unspecified	OSGEARTH SOFTWARE LICENSE	https://github.com/gwaldron/osgearth
126	OpenSSL - in C	1.1.1d, 1.0.2q	OpenSSL Combined License	http://www.openssl.org
127	Opus	1.3.1	BSD 3-Clause "New" or "Revised" License	http://opus-codec.org

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128	PCRE - Perl Compatible Regular Expressions	8.43	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects/pcre/
129	Pango	1.40.14	GNU Library General Public License v2 or later	http://www.pango.org/
130	Pkg Config	0.29.2	GNU General Public License v2.0 or later	http://www.freedesktop.org/wiki/FAQ/AboutTheFSFLicense/
131	Popt	1.16	MIT License	http://freshmeat.net/projects/popt/
132	Protocol Buffers	3.9.1, 2.3.0	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/protobuf
133	PulseAudio	11.1	GNU Lesser General Public License v2.1 or later	http://pulseaudio.org/
134	PyGObject - Python Bindings for the GObject+ library	3.28.1	GNU Lesser General Public License v2.1 or later	http://t2sde.org/packages/pygobject/
135	Python	2.7.18	Python Software Foundation License 2.1.1	http://www.python.org/

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136	Python3	3.7.3	Python Software Foundation License 2.1.1	https://www.python.org/
137	SQLite	3.21.0,3.26.0, 3.7.5	Public Domain	http://www.sqlite.org/
138	cryptodev-linux	1.9	GNU General Public License v2.0 or later	http://cryptodev-linux.org/
139	Utm	Unspecified	Utm License	http://alephnull.net/software/

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140	UTF-8 CPP	Unspecified	Boost Software License 1.0	http://sourceforge.net/projects/boost/
141	TomTom	Unspecified	MIT License	https://www.tomtom.com/en_gb/technology/open-source/
142	Tadween	1.0.4	MIT License	http://sourceforge.net/projects/tadween/
143	QRCode	0.0.1	MIT License	https://github.com/ricmoo/QRCode
144	rapidjson	1.1.0	MIT License	http://github.com/miloyip/rapidjson
145	QT	5.6.3, 5.6.1	GNU Lesser General Public License v2.1 or later	http://qt-project.org/
146	Rygel - DLNA Media Server	1	GNU Lesser General Public License v2.1 or later	https://wiki.gnome.org/ProjectRygel/
147	S Trace	4.2	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects/s-trace/
148	Secret Rabbit Code	0.1.9	BSD 2-Clause "Simplified" License	http://www.mega-nerd.com/SRC/

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149	Speex	1.2.0	BSD 3-Clause "New" or "Revised" License	http://www.speex.org/
150	Speexdsp	1.2rc3	BSD 3-Clause "New" or "Revised" License	https://www.speex.org/
151	Sratom	0.6.0	ISC License	http://drobilla.net/software/sr
152	Stanford Secure Remote Password Authentication - SRP	2.1.2	Stanford SRP Authentication Project License	http://srp.stanford.edu/
153	Stunnel -- Universal SSL Wrapper	5.44	stunnel GPL 2.0 with Exception License	http://www.stunnel.org/
154	System Tap	2.9	GNU General Public License v2.0 or later	http://sourceware.org/systemt
155	TCP Wrappers	7.6	TCP Wrappers License	ftp://ftp.porcupine.org/pub/se
156	TagLib	1.11.1	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/t
157	The ASN.1 Compiler	0.9.27	BSD 3-Clause "New" or "Revised" License	http://github.com/vlm/asn1c/
158	Templatized C++ Command Line Parser	1.2.1	MIT License	http://sourceforge.net/projects
159	TinyXML	2.6.2, 3.0.0	zlib License	http://sourceforge.net/projects

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160	The FreeType Project - freetype2	2.9.1, 2.5.3, 2.6.0	Freetype Project License	http://sourceforge.net/projects/freetype/
161	Threaded I/O Tester	0.3.3	GNU General Public License v2.0 or later	http://tiobench.sourceforge.net/
162	Totem Playlist Parser	3.4.5	GNU Library General Public License v2 or later	https://developer.gnome.org/totem/
163	Tslib	1.15	GNU Lesser General Public License v2.1 only	http://tracker.debian.org/pkg/tslib
164	Unzip	6	Info-ZIP License	http://www.info-zip.org/pub/infozip/
165	Valgrind Instrumentation Framework	3.13.0	GNU General Public License v2.0 or later	http://valgrind.org/
166	WavPack Lossless Audio Compressor	4.60.1	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects/wavpack/
167	Wayland and Weston	1.14.0	MIT License	http://wayland.freedesktop.org/

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168	XML::Parser	2.44	Artistic License 1.0	http://search.cpan.org/~toddr/
169	XZ Utils	5.2.3	Public Domain	http://tukaani.org/xz/
170	apitrace	7.1	MIT License	http://github.com/apitrace/apitrace
171	avdecc-lib	0.6.20	MIT License	http://github.com/audiosciences/avdecc-lib
172	bonnie++	1.03e	GNU General Public License v2.0 only	https://www.coker.com.au/bonnie++/
173	broccoli	0.1.1	MIT License	https://github.com/google/broccoli
174	btrfs-progs	4.13.3	GNU General Public License v2.0 only	http://github.com/linsomniac/btrfs-progs

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175	c-ares	1.13.0	MIT License	http://tracker.debian.org/pkg/
176	cdparanoia	10.2	GNU General Public License v2.0 or later	http://www.xiph.org/paranoia/
177	cmocka	1.0.1	Apache License 2.0	https://cmocka.org/
178	Crda	3.18	copyleft-next 0.3.0	https://www.kernel.org/pub/s
179	cryptsetup	2.0.1	GPL 2.0 with OpenSSL Exception	http://code.google.com/p/cryp
180	Delaunay-Triangulation	Unspecified	License for Delaunay-Triangulation	

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181	curl - curl	7.66.0, 7.59.0, 7.64.1	MIT License	http://tracker.debian.org/pkg/curl
182	dbus-glib	0.106	Academic Free License v2.1	http://www.freedesktop.org/wiki/FAQ/AboutTheFSFLicense
183	dbus-python	1.2.6	MIT License	http://dbus.freedesktop.org/re
184	dley-na-connector-dbus	0.3.0	GNU Lesser General Public License v2.1 only	https://01.org/dley-na/download
185	dley-na-core	0.6.0	GNU Lesser General Public License v2.1 only	https://01.org/dley-na/download
186	dley-na-renderer	0.6.0	GNU Lesser General Public License v2.1 only	https://01.org/dley-na/download
187	dley-na-server	0.6.0	GNU Lesser General Public License v2.1 only	https://01.org/dley-na/download
188	dosfstools - Longtail	2.11	GNU General Public License v2.0 or later	https://launchpad.net/ubuntu/+archive-extra
189	dtc	1.4.5	GNU General Public License v2.0 or later	https://git.kernel.org/cgit/util-linux
190	elfutils	0.148	GNU General Public License v2.0 only	https://fedorahosted.org/elfutils
191	ethtool	4.13	GNU General Public License v2.0 or later	https://www.kernel.org/pub/sc

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192	gflags	2.2.0	BSD 3-Clause "New" or "Revised" License	http://code.google.com/p/gflags/
193	giflib -- A library for processing GIFs - giflib	5.1.4	OSF - X Consortium License	http://sourceforge.net/projects/giflib/
194	google-snappy	1.1.3	BSD 3-Clause "New" or "Revised" License	http://github.com/google/snappy
195	grpc	1.22.0	Apache License 2.0	http://github.com/grpc/grpc/
196	gst-libav	1.12.4	GNU Lesser General Public License v2.1 or later	https://gstreamer.freedesktop.org/
197	gst-rtsp-server	1.12.4	GNU Library General Public License v2 or later	http://github.com/sebp/gst-rtsp-server
198	gstreamer-vspfilter	1.0.0-r0	GNU Library General Public License v2 or later	https://github.com/renesas-rca/gstreamer-vspfilter
199	gzip	1.3.12	GNU General Public License v2.0 or later	http://savannah.gnu.org/projects/gzip

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208	johnrengelman/shadow	4.6	BSD 3-Clause "New" or "Revised" License	http://github.com/johnrengelman/shadow
209	json-c	0.12.0, 0.13	MIT License	http://tracker.debian.org/pkg/json-c
210	jubatus-mpio	0.4.5	Apache License 2.0	https://github.com/jubatus/jubatus-mpio
211	jubatus-msgpack-rpc	0.4.4	Apache License 2.0	https://github.com/jubatus/jubatus-msgpack-rpc
212	keyutils	1.5.10	GNU General Public License v2.0 or later	http://people.redhat.com/~dhaller/
213	libaio	0.3.110	GNU Library General Public License v2 or later	http://web.archive.org/web/20110607082800/http://www.kernel.org/pub/linux/utils/kernel/oaidebug/libaio/
214	Libarchive	3.3.2	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/libarchive

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215	libbacktarce	Unspecified	BSD 3-Clause "New" or "Revised" License	https://github.com/jamel/libba
216	libbsd	0.10.0	BSD 3-Clause "New" or "Revised" License	http://libbsd.freedesktop.org/v
217	libcap-ng	0.7.8	GNU General Public License v2.0 or later	http://people.redhat.com/sgru
218	libcroco	0.6.12	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/l
219	libdaemon	0.14	GNU Lesser General Public License v2.1 or later	http://www.linuxfromscratch.c
220	libdrm	2.4.91, 2.4.46, 2.4.62	MIT License	http://dri.freedesktop.org/wiki
221	libev	4.24	BSD 2-Clause "Simplified" License	http://software.schmorp.de/pk
222	libevdev	1.5.8	MIT License	http://www.freedesktop.org/w

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223	libevent - an asynchronous event library	2.1.8-stable	BSD 3-Clause "New" or "Revised" License	http://github.com/nmathewson
224	libffi	3.2.1	MIT License	http://tracker.debian.org/pkg/
225	libgbm	17.3.6	MIT License	http://github.com/robclark/libg
226	libgcrypt	1.8.5	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org
227	libgpod	git-r0	GNU Lesser General Public License v2.1 or later	https://github.com/brgl/libgpod
228	libgudev	232	GNU Library General Public License v2 or later	https://github.com/GNOME/libg
229	libical	2.0.0	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/

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230	libinput	1.9.4	MIT License	https://www.freedesktop.org/
231	libjpeg	8b	Independent JPEG Group License	http://www.ijg.org/
232	libjpeg	1.5.3	zlib License	http://tracker.debian.org/pkg/
233	libktx	2	BSD-like license (libktx)	https://www.khronos.org/open
234	libjson	7.6.1	BSD 2-clause "Simplified" License	http://sourceforge.net/projects
235	libjson-rpc-cpp	1.1.0	MIT License	http://github.com/cinemast/lib
236	libmediaart	2	GNU Lesser General Public License v2.1 or later	https://developer.gnome.org/lib
237	libmnl	1.0.4	GNU Lesser General Public License v2.1 or later	http://www.netfilter.org/proje
238	libpng	1.6.34, 1.6.32	libpng License	http://tracker.debian.org/pkg/
239	libmtp	1.1.14, 1.1.6	GNU Library General Public License v2 or later	http://sourceforge.net/projects

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240	libnfsidmap	0.25	BSD 3-Clause "New" or "Revised" License	http://www.citi.umich.edu/pro
241	libogg	1.3.3	BSD 3-Clause "New" or "Revised" License	http://xiph.org/ogg/
242	libp11	0.4.10	GNU Lesser General Public License v2.1 or later	https://github.com/OpenSC/lib
243	libpcap	1.8.1	BSD 3-Clause "New" or "Revised" License	https://github.com/the-tcpdun
244	libpsl	0.21.0	MIT License	http://tracker.debian.org/pkg/l
245	librsvg	2.40.20	GNU Library General Public License v2 or later	https://wiki.gnome.org/action/

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246	libseccomp	2.3.3	GNU Lesser General Public License v2.1 only	https://github.com/seccomp/li
247	libselenium	3	Public Domain	https://github.com/SELinuxPro
248	libselenium_GPL	3	GNU General Public License v2.0 only	https://github.com/SELinuxPro
249	libsemanage	3	GNU Lesser General Public License v2.1 or later	https://github.com/SELinuxPro
250	libsepol	3	GNU Lesser General Public License v2.1 or later	https://github.com/SELinuxPro
251	libsigc++	2.10.0	GNU Lesser General Public License v2.1 or later	http://libsigc.sourceforge.net/
252	libsndfile	1.0.28, 1.0.27	GNU Lesser General Public License v2.1 only	http://tracker.debian.org/pkg/
253	libsolv	0.6.33	BSD 3-Clause "New" or "Revised" License	http://github.com/openSUSE/C

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254	libsoup	2.68.2	GNU Library General Public License v2 or later	http://tracker.debian.org/pkg/
255	libtheora	1.1.1	libtheora License	http://www.theora.org/
256	libtirpc	1.0.2	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects/
257	libusb	1.0.21, 0.1.5, 1.0	GNU Lesser General Public License v2.1 or later	http://rubygems.org/gems/libu
258	libusb-gx	0.1.0	GNU Lesser General Public License v2.1 or later	https://github.com/libusb-gx/lib
259	libuv - joyent/libuv	1.31.0	MIT License	http://github.com/libuv/libuv/
260	libvncserver	0.9.11	GNU General Public License v2.0 or later	http://github.com/LibVNC/libv
261	libvorbis	1.3.5	BSD 3-Clause "New" or "Revised" License	http://www.vorbis.com/
262	libwebp	0.6.1	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/

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263	libwebsockets	3.1.0	GNU Lesser General Public License v2.1 or later	http://github.com/warmcat/lib
264	libxkbcommon	0.8.0	MIT License	http://tracker.debian.org/pkg/
265	murmurhash3	Unspecified	Public Domain	https://github.com/aappleby/s
266	litehtml	Unspecified	BSD 3-Clause "New" or "Revised" License	http://code.google.com/p/litehtml
267	libxml2	2.9.8, 2.9.2	MIT License	http://xmlsoft.org/
268	libxslt	1.1.32	MIT License	http://xmlsoft.org/XSLT/
269	lmbench	3.0-a9	GNU General Public License v2.0 only	http://sourceforge.net/projects
270	lv2	1.14.0	ISC License	http://lv2plug.in/
271	mDNSResponder	625.41.2	Apache License 2.0	http://github.com/Sha0/mDNS

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272	mbed TLS	2.2.1	Apache License 2.0	http://github.com/ARMmbed/
273	mimetic	0.9.8	MIT License	http://www.codesink.org/mimetic
274	mmc-utils	0.1	GNU General Public License v2.0 or later	https://git.kernel.org/pub/scm
275	mosquitto: an mqtt message broker	1.4.14	Eclipse Distribution License - v 1.0	https://mosquitto.org/
276	mtdev	2.0.1	GNU General Public License v2.0 or later	https://github.com/mpdf/mpdf
277	mtdev	1.1.5	MIT License	http://github.com/rydberg/mtdev
278	ncurses	6.1	MIT License	https://www.gnu.org/software
279	nghttp2	1.39.2	MIT License	http://tracker.debian.org/pkg/nghttp2
280	oFono	1.22	GNU General Public License v2.0 only	http://ofono.org/

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281	opkg	0.3.6	GNU General Public License v2.0 or later	https://git.yoctoproject.org/cgi/
282	optee_os	3.1.0	BSD 2-Clause "Simplified" License	http://github.com/OP-TEE/optee
283	p7v	0.2-r2	GNU General Public License v2.0 or later	https://github.com/chombourg
284	persistence-common-object	1.0.3	Mozilla Public License 2.0	https://github.com/GENIVI/per
285	persistence-administrator	1.0.9	Mozilla Public License 2.0	http://projects.genivi.org/persi
286	pppd	2.4.7	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/
287	procps	3.3.12	GNU General Public License v2.0 or later	https://gitlab.com/procps-ng/p
288	protobuf	2.3.0	BSD 3-Clause "New" or "Revised" License	http://code.google.com/p/prot
289	protobuf-c	1.3.2	BSD 2-Clause "Simplified" License	http://tracker.debian.org/pkg/

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290	psmisc	23	GNU General Public License v2.0 or later	http://psmisc.sourceforge.net/
291	py3cairo	1.15.6	GNU Lesser General Public License v2.1 or later	https://www.cairographics.org/
292	refpolicy	2.8	GNU General Public License v2.0 only	https://github.com/SELinuxPro
293	rsync	2.6.9	GNU General Public License v2.0 or later	http://samba.anu.edu.au/rsync
294	sbc - Bluetooth Low-complexity Subband Codec Library	1.3	GNU General Public License v2.0 or later	https://en.wikipedia.org/wiki/S
295	serd	0.26.0	ISC License	https://drobilla.net/software/s
296	sg3_utils	1.42	GNU General Public License v2.0 or later	http://sg.danny.cz/sg/sg3_utils
297	shared-mime-info	1.9	GNU General Public License v2.0 or later	http://www.freedesktop.org/w
298	simple-mtpfs	0.3.0	GNU General Public License v2.0 or later	http://github.com/phatina/sim
299	sord	0.16.0	ISC License	http://drobilla.net/software/so
300	squashfs - a compressed fs for Linux	squashfs4.3	GNU General Public License v2.0 or later	http://sourceforge.net/projects

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302	systemd	239	GNU General Public License v2.0 or later	http://tracker.debian.org/pkg/s
303	trace-cmd	2.7-r0	GNU General Public License v2.0 only	http://github.com/rostedt/trac
304	update-rc.d	0.7	GNU General Public License v2.0 or later	http://github.com/philb/updat
305	usbutils	9	GNU General Public License v2.0 or later	http://tracker.debian.org/pkg/
306	util-linux	2.32.1	GNU General Public License v2.0 only	http://tracker.debian.org/pkg/

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308	v4utils_LGPL2.1	1.15.0	GNU Lesser General Public License v2.1 or later	http://git.linuxtv.org/v4l-utils.g
309	v4utils_gpl2.0	1.15.0	GNU General Public License v2.0 or later	http://git.linuxtv.org/v4l-utils.g
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312	vasi/pixz	1.0.6	BSD 2-Clause "Simplified" License	https://github.com/vasi/pixz
313	vsomeip	2.10.10	Mozilla Public License 2.0	https://github.com/GENIVI/vso
314	wireless-tools	30.pre9	GNU General Public License v2.0 or later	http://www.hpl.hp.com/person
315	RFC1321-based (RSA-free) MD5 library	1.6	Zlib	http://sourceforge.net/projects
316	fastlz	0.1.0	MIT	http://code.google.com/p/fastl
317	XML parser generator	Unspecified	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects
318	yajl-c	2.1.0	BSD 3-Clause "New" or "Revised" License	http://github.com/lloyd/yajl/
319	wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.4, 2.9	BSD 3-Clause "New" or "Revised" License	http://hostap.epitest.fi/wpa_su
320	zlib	1.2.3, 1.2.11, 1.2.8	zlib License	http://tracker.debian.org/pkg/

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322	Dash	0.5.11.2	BSD 3-clause "New" or "Revised" License	
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Version 3.1, 31 March 2009

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3.1.11 Libjpegturbo - 1.2.1

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3.1.17 Portaudio - 1.9

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3.1.19 Miniupnpc - 1.5

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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_suppllicant - 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

Home Page: [http://repo1.maven.org/maven2/com/ning/metrics.action/](http://repo1.maven.org/maven2/com/ning/metrics/action/)

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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

Home Page: <https://developer.android.com/tools/support-library/index.html>

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3.1.38 Android SDK Support Libraries

Drools:: Scorecards - 5.5.0.Final

Home Page : <http://mirrors.ibiblio.org/maven2/org/drools/drools-scorecards/>

License: Apache License 2.0

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

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

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3.1.41 doT - 1.0.1

Home Page: <http://github.com/olado/doT/>

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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

Home Page: <http://github.com/SafeSlingerProject/SafeSlinger-Android/>

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3.1.45 OpenSSL

Home Page: <http://www.openssl.org/>

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3.1.46 CRC32

Home Page: <http://web.mit.edu/>

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3.1.47 SHA-1 in C

Home Page: <http://www.mirrors.wiretapped.net/security/cryptography/hashes/sha1>

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3.1.48 SyncML C Toolkit - 4.0.3

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3.1.49 CMarkup - 11.05

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3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition

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3.1.51 LZO real-time data compression library - 2.04

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3.1.54 Android - platform - bootable – recovery - 5.0.0_r1

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3.1.55 Android - platform - bootable – recovery - 2.3_r1

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3.1.56 Android - platform - system – core - 4.2

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3.1.57 File system in Userspace - 2.8.7

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3.1.58 lz4 Compression algorithm - r111


Home Page: <http://code.google.com/p/lz4/>

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3.1.59 Android -platform - system - core/libmincrypt

Home Page: https://android.googlesource.com/platform/system/core/+/_master/libmincrypt

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3.1.63 Bsdiff - 4.3

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

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

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3.1.64 GNU C Library – glibc - 2.2.4

Home Page: <http://www.gnu.org/software/libc/libc.html>

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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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3.1.73 XZ Utils -5.0.7

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3.1.74 Zlib - 1.2.3

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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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3.1.81 gecko-dev

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

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3.1.89 SQLite

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

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

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

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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

Version master-20141123

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

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3.1.97 SDL

Version 2.0

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3.1.96.1 SDL_gfx

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3.1.98pkgconf

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

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3.1.99 Code Project - C++ Memory Pool

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

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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RealVNC has made the following modifications to OpenSSL 0.9.8zf:

- The hard-coding of config options in opensslconf.h.

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- The addition of compile-time
-
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- 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.

3.2.4 SHA

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3.2.8 expat

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

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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.

3.2.11 FreeType

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3.2.12 LodePNG

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3.2.13 GCC libstdc++

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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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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.
- 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.

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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/cgit/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.


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4.0 Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	https://github.com/brianloveswords/buffer-crc32
dbus-native	0.2.0	MIT	https://github.com/sidorares/node-dbus
dbus-proxy	0.0.0-unreleasable	NA	NA
abstract-socket	1.1.0	MIT	https://github.com/saghul/node-abstractsocket
bindings	1.2.1	MIT	https://github.com/TooTallNate/node-bindings
nan	2.4.0	MIT	https://github.com/nodejs/nan#readme
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	http://github.com/dominictarr/event-stream
duplexer	0.1.1	MIT	https://github.com/Raynos/duplexer
from	0.1.3	MIT	https://github.com/dominictarr/from
map-stream	0.1.0	NA	http://github.com/dominictarr/map-stream
pause-stream	0.0.11	MIT, Apache2	https://github.com/dominictarr/pause-stream
split	0.3.3	MIT	http://github.com/dominictarr/split
stream-combiner	0.0.4	MIT	https://github.com/dominictarr/stream-combiner
through	2.3.8	MIT	https://github.com/dominictarr/through
put	0.0.6	MIT/X11	https://github.com/substack/node-put
xml2js	0.1.14	NA	https://github.com/Leonidas-from-XIV/node-xml2js
sax	1.2.1	ISC	https://github.com/isaacs/sax-js#readme
iconv-lite	0.4.15	MIT	https://github.com/ashtuchkin/iconv-lite
jbinary	2.1.2	MIT	https://github.com/jDataView/jBinary
es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	https://github.com/jakearchibald/ES6-Promises
jdataview	2.5.0	WTFPL	http://jDataView.github.io/

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request	2.53.0	Apache-2.0	https://github.com/request/request
aws-sign2	0.5.0	NA	https://github.com/mikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rvagg/bl
readable-stream	1.0.33	MIT	https://github.com/isaacs/readable-stream
core-util-is	1.0.1	MIT	https://github.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://github.com/isaacs/inherits
isarray	0.0.1	MIT	https://github.com/juliangruber/isarray
string_decoder	0.10.31	MIT	https://github.com/rvagg/string_decoder
caseless	0.9.0	BSD	https://github.com/mikeal/caseless
combined-stream	0.0.7	NA	https://github.com/felixge/node-combined-stream
delayed-stream	0.0.5	NA	https://github.com/felixge/node-delayed-stream
forever-agent	0.5.2	NA	https://github.com/mikeal/forever-agent
form-data	0.2.0	MIT	https://github.com/felixge/node-form-data
async	0.9.0	MIT	https://github.com/caolan/async
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	https://github.com/hueniverse/hawk
boom	2.6.1	BSD	https://github.com/hapijs/boom
cryptiles	2.0.4	BSD	https://github.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://github.com/hapijs/hoek
sntp	1.0.9	BSD	https://github.com/hueniverse/sntp
http-signature	0.10.1	MIT	https://github.com/joyent/node-http-signature/
asn1	0.1.11	NA	NA
assert-plus	0.1.5	NA	https://github.com/mcavage/node-assert-plus
ctype	0.5.3	NA	https://github.com/rmustacc/node-ctype
isstream	0.1.1	MIT	https://github.com/rvagg/isstream
json-stringify-safe	5.0.0	BSD	https://github.com/isaacs/json-stringify-safe
mime-types	2.0.9	MIT	https://github.com/jshttp/mime-types
mime-db	1.7.0	MIT	https://github.com/jshttp/mime-db
node-uuid	1.4.2	MIT	https://github.com/broofa/node-uuid
oauth-sign	0.6.0	NA	https://github.com/mikeal/oauth-sign
qs	2.3.3	BSD	https://github.com/hapijs/qs
stringstream	0.0.4	MIT	https://github.com/mhart/StringStream

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tough-cookie	0.12.1	MIT	https://github.com/goinstant/tough-cookie
punycode	1.3.2	MIT	https://mths.be/punycode
tunnel-agent	0.4.0	NA	https://github.com/mikeal/tunnel-agent
mkdirp	0.5.0	MIT	https://github.com/substack/node-mkdirp
minimist	0.0.8	MIT	https://github.com/substack/minimist
xml2js	0.4.5	MIT	https://github.com/Leonidas-from-XIV/node-xml2js
sax	0.6.1	BSD	https://github.com/isaacs/sax-js
xmlbuilder	2.5.1	MIT	http://github.com/oozcitak/xmlbuilder-js
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7.	base-passwd	3.5.46co1bv2019.0b1	GPL-2.0+ <u>Other licenses:</u> GPL-2.0	Copyright: Copyright 1999-2002 Wichert Akkerman Copyright 2007 David Mandelberg Copyright 2002, 2003, 2004, 2005, 2007 Colin Watson Copyright 2002, 2003, 2004 Colin Watson Copyright 2001, 2002 Joey Hess Copyright (C) of this file 2014 Chris Leick Copyright (C) Helge Kreutzmann. Copyright (C) 2010 Software in the Public Interest Copyright (C) 2010 Free Software Foundation, Inc. Copyright (C) 2004 Nicolas FRANCOIS
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