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Version 3.1, 31 March 2009

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.



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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.

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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.

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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.

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.



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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 macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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



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

- 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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#### Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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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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(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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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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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# 3 Other Open-Source Dependencies

## 3.1. Supplier: Alps Alpine

Supplier: Alps_Alpine				
Name of OSS Component	Version	License	Home Page	Copyrights
Android - platform - frameworks	android-	Apache	http://developer.and	
- base	6.0.0_r1	License 2.0	roid.com/index.html	
Android - platform - packages -	android-	Apache	http://developer.and	
apps - Bluetooth	8.0.0_r2	License 2.0	roid.com/index.html	
aosp-	android-n-iot-	Apache	http://developer.and	
mirror/platform_hardware_libha	preview-4	License 2.0	roid.com/index.html	
rdware				
Android - platform - frameworks	android-	Apache	http://developer.and	

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Android - platform - external -	android-	Apache	http://developer.and
bluetooth - bluedroid	4.2.2_r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-4.2_r1	Apache	http://developer.and
- av	_	License 2.0	roid.com/index.html
aosp-	android-o-	Apache	http://developer.and
mirror/platform_hardware_libha	preview-1	License 2.0	roid.com/index.html
rdware			
Android - platform - frameworks	android-	Apache	http://developer.and
- base	7.1.2 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-2.1 r1	Apache	http://developer.and
- base	_	License 2.0	roid.com/index.html
Android - platform - frameworks	android-o-	Apache	http://developer.and
- base	preview-2	License 2.0	roid.com/index.html
CyanogenMod -	cm-10.2-M1	Apache	http://developer.and
android_external_bluetooth_blu		License 2.0	roid.com/index.html
edroid			
aosp-	android-n-mr2-	Apache	http://developer.and
mirror/platform_hardware_libha	preview-1	License 2.0	roid.com/index.html
rdware	·		,
Android - platform - packages -	android-	Apache	http://developer.and
apps - Bluetooth	5.1.0 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-p-	Apache	http://developer.and
- base	preview-1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	3.2.4 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-wear-	Apache	http://developer.and
- base	n-preview-1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	8.1.0_r2	License 2.0	roid.com/index.html
aosp-	android-	Apache	http://developer.and
mirror/platform_hardware_libha	6.0.1_r30	License 2.0	roid.com/index.html
rdware			
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.0.3_r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.4_r0.7	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	8.0.0_r21	License 2.0	roid.com/index.html
Android - platform - frameworks	android-wear-	Apache	http://developer.and
- base	n-preview-2	License 2.0	roid.com/index.html
Android - platform - packages -	android-	Apache	http://developer.and
apps - Bluetooth	5.0.0_r1	License 2.0	roid.com/index.html
Android - platform - packages -	android-4.2_r1	Apache	http://developer.and
apps - Bluetooth	_	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.1.1_r1	License 2.0	roid.com/index.html
Android - platform - packages -	android-	Apache	http://developer.and
apps - Bluetooth	7.0.0_r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-n-	Apache	http://developer.and
- opt - bluetooth	preview-1	License 2.0	roid.com/index.html
Android - platform - packages -	android-4.3_r1	Apache	http://developer.and
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Android - platform - frameworks - base	android-n-iot- preview-4	Apache License 2.0	http://developer.and roid.com/index.html
Android - platform - frameworks	android-n-	Apache	http://developer.and
- base	preview-3	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	6.0.0 r5	License 2.0	roid.com/index.html
	android-		
Android - platform - external -		Apache	http://developer.and
bluetooth - bluedroid	4.4_r0.8	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	5.0.0_r2	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.4_r0.9	License 2.0	roid.com/index.html
Android - platform - frameworks	android-o-	Apache	http://developer.and
- base	preview-1	License 2.0	roid.com/index.html
aosp-	android-	Apache	http://developer.and
mirror/platform_hardware_libha	5.0.0_r2	License 2.0	roid.com/index.html
rdware	_		
Android - platform - external -	android-4.2 r1	Apache	http://developer.and
bluetooth - bluedroid		License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	6.0.1 r56	License 2.0	roid.com/index.html
Android - platform - packages -	android-4.4 r1	Apache	http://developer.and
apps - Bluetooth	android 4.4_11	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	7.0.0 r5	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.0.1_r1	License 2.0	roid.com/index.html
Linux Kernel	v3.4-rc4	(GNU General	https://www.kernel.o
		Public License	rg
		v2.0 only AND	
		GNU General	
		Public License	
		v2.0 or later)	
Android - platform - frameworks	android-n-	Apache	http://developer.and
- base	preview-4	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	7.0.0_r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- base	4.4_r0.8	License 2.0	roid.com/index.html
Android - platform - hardware -	android-	Apache	http://developer.and
libhardware	5.1.0 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-n-mr2-	Apache	http://developer.and
- base	preview-1	License 2.0	roid.com/index.html
Android - platform - packages -	android-	Apache	http://developer.and
apps - Bluetooth	6.0.0 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-	Apache	http://developer.and
- opt - bluetooth	6.0.0 r1	License 2.0	roid.com/index.html
Android - platform - frameworks	android-n-	Apache	http://developer.and
- base	preview-1	License 2.0	roid.com/index.html
	•		
Android - platform - frameworks	android-4.2_r1	Apache	http://developer.and
- base	1	License 2.0	roid.com/index.html



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Supplier:Android_OMR1	Varaian	Licence	Hama Daga	Commission
Name of OSS Component ARM trusted firmaware BL31	Version	License BSD2	Home Page	Copyrights
AVB Media Clock Recovery Handler driver		GPL v2/MIT		
AVB Media Streaming Engine		GPL v2/MIT		
driver		G. 2 72,		
AVB Streaming driver		GPL v2/MIT		
boot_control		Apache v2		
device.renesas.common		Apache v2		
device.renesas.kingfisher		Apache v2		
device.renesas.salvator		Apache v2		
device.renesas.ulcb		Apache v2		
Dynamic Trusted Application Note		BSD2		
evs		Apache v2		
gatekeeper		Apache v2		
HWComposer		Apache v2		
interfaces.graphics.composer		Apache v2		
IPL		BSD		
Kernel		GPL v2		
keymaster		Apache v2		
LensPicker		Apache v2		
libLLVMIMG.so		University of Illinois/NCSA Open Source License		
libstagefrighthw		Apache v2		
Memory Manager Driver		GPL v2/MIT		
Memory Manager I/F		MIT		
NetworkDisplayDemo		Apache v2		
Oemlock		Apache v2		
OP-TEE (including TEE internal API)		BSD2		
OP-TEE Linux driver		GPL v2/MIT		
Overview		Apache v2		
patch files for i2c-tools		GPL v2		
QoS driver		GPL v2/MIT		
QoS I/F		MIT		
R8A7795 GX6650 Device Driver for Android		GPL v2/MIT		
R8A7796 GX6250 Device Driver for Android		GPL v2/MIT		
Settings file of usb fw		Apache v2		
si-tools		GPL v3		
SPI / HyperFlash driver		BSD2		



SS6.3-Public Driver for Linux	GPL v2/MIT
Timer driver	BSD2
U-Boot	GPL v2
UVCS Driver for Android	GPL v2/MIT
VSP Manager	GPL v2/MIT
VSP Manager I/F	MIT
VSPM I/F Driver	GPL v2/MIT

# 3.3. Supplier: Apertis

	Supplier: Apertis				
Name of OSS Component	Version	License	Home Page	Copyrights	
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Apertis pro archive keyring	0.2rb1bv2020. 0b1	GPL-2.0+		Copyright: 2012 RBEI Ltd.	
Apparmor	2.13.2- 10co2bv2020pr eb3	GPL-2.0 Other licenses: LGPL-2.1 Public Domain X11 MIT GPL-2.0+-with- libtool- exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception FSFAP FSFUL BSD-3-Clause		Copyright 1992-2018 Free Software Foundation, Inc. Copyright (c) Christian Boltz 2018 Copyright (c) 2017 SUSE LINUX GmbH, Nuernberg, Germany. Copyright (c) 2017 Rosetta Contributors and	

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		I Public		
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		v2.0 or		
C Trans	4.10	later	http://govygoforgo.mot/grgioste/stroog/	
S Trace	4.10	BSD 3- clause	http://sourceforge.net/projects/strace/	
		"New"		
		or		
		"Revise		
		d"		
		License		
siphash	Unspecif	Public	http://github.com/dchest/siphash/	
	ied	Domain		
smhasher	3090200	Public	http://code.google.com/p/smhasher/	
SQLite	3090200	Domain Public	http://www.hwaci.com/sw/sqlite/index.html	
SQLILE	3030200	Domain	Tittp://www.nwaci.com/sw/sqlite/index.nim	
squashfs-tools	4.3	GNU	http://github.com/plougher/squashfs-tools/	
		Genera	interference of procedure for the constraint of	
		I Public		
		License		
		v2.0 or		
	000	later		
systemd	228	GNU	http://freedesktop.org/wiki/Software/systemd/	
		Lesser		
		Genera I Public		
		License		
		v2.1 or		
		later		
Tiny Asynchronous	Unspecif	Beerwa	http://sourceforge.net/projects/adns/	
DNS lookup library	ied	re		
		License		
TLSF	1.9	Public	http://tlsf.baisoku.org	
LIDIEC	l lnors s sif	Domain	http://www.lip.or.poted.infradesed.aug/dese/.hife-html	
UBIFS	Unspecif ied	GNU Genera	http://www.linux-mtd.infradead.org/doc/ubifs.html	
	leu	l Public		
		License		
		v2.0 or		
		later		
<u>-</u>	•		· · · · · · · · · · · · · · · · · · ·	



uClibc - A C Library for Embedded Linux	0.9.30.3	GNU Lesser Genera I Public License v2.1 or later	http://www.uclibc.org/
USB Utils	007	GNU Genera I Public License v2.0 or later	https://www.kernel.org/pub/linux/utils/usb/usbutils /
USB-DFU	1.0	GNU Genera I Public License v2.0 or later	http://www.usb.org/home
usbnet	Unspecif ied	GNU Lesser Genera I Public License v2.1 or later	http://www.linux-usb.org/usbnet/
Util-Linux	2.27.1	GNU Genera I Public License v2.0 or later	http://freshmeat.net/projects/util-linux/
util-unix-ng	Unspecif ied	GNU Genera I Public License v2.0 or later	http://userweb.kernel.org/~kzak/util-linux-ng/
Wide_Project	Unspecif ied	BSD 3- clause "New" or "Revise d" License	http://www.wide.ad.jp/index.html
wireless-tools	30	GNU Genera I Public License v2.0 or later	http://www.hpl.hp.com/personal/Jean_Tourrilhes/ Linux/Tools.html
wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.5	BSD 3- clause "New"	http://hostap.epitest.fi/wpa_supplicant/

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I	İ	ا م		
		or "Revise		
		d"		
		License		
XZ Utils	5.0.4	Public	http://tukaani.org/xz/	
		Domain		
yajl	Unspecif	ISC	http://github.com/lloyd/yajl/	
	ied	License		
yajl	2.1.0	ISC	http://github.com/lloyd/yajl/	
		License		
zlib	1.2.8,1.1	zlib	http://www.zlib.net	
	.3	License		

#### 3.8. Supplier: Nuance

Spplier: Nuance							
Component	Version	License	Home Page	Copyright			
PCRE		BSD 3-Clause					
		"New" or					
		"Revised" License					

### 3.9. Supplier: OMRON

Supplier: OMRON								
Componen t name	'  .							
SimString	1	The BSD license	http://www.chokkan.org/soft ware/simstring/	Copyright (c) 2009,2010 Naoaki Okazaki All rights reserved.				

## 3.10.Supplier : Real\_VNC\_3\_2

Supplier: Real	Supplier: Real_VNC_3_2							
Component name	Version	License	Homepage	Copyright				
aclocal and pkg.m4	aclocal 1.11.1	Free Software Foundati on - MIT Style License GPL2.0+ wih Autoconf exception		Copyright © 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 FreeSoftware Foundation, Inc. Copyright © 2004 Scott James Remnant <scott@netsplit.com>.</scott@netsplit.com>				

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AFC		D.:		C
AES		Brian		Copyright © 2003 Dr Brian
		Gladman		Gladman, Worcester, UK.
		3-Clause		
		License		
	1000	or GPL		
Android	19.0.0	Apache		Copyright (c) 2005-2008,
Support		License		The Android Open Source
Libraries		2.0		Project
ath9k_faf1dc64_		GNU		Copyright © 2014
backport.patch		General		Rajkumar Manoharan.
		Public		
		License		
		v2.0 or		
		later		
axTLS	1.1.8	BSD 3-		Copyright © 2007
(SHA1 only)		Clause		Cameron Rich. See
		"New" or		section 7.7.1
		"Revised"		
		License		
Base64.java	2.3.7	Public	http://iharder/sourceforge.net/current/jav	
		domain	a/b ase64	
compat-wireless	1027gd4641	GNU		
	6с-р	General		
	'	Public		
		License		
		v2.0 or		
		later		
EAX		Brian		Copyright © 1998-2010 Dr
		Gladman		Brian Gladman,
		License		Worcester, UK.
Endian		Brian		Copyright © 2003 Dr Brian
		Gladman		Gladman, Worcester, UK.
		3-Clause		
		License		
expat	2.0.1	MIT		Copyright © 1998,1999,
CAPAC	2.0	License		2000 Thai Open Source
		Licerise		Software center Ltd and
				Clark Cooper.
				Copyright © 2001, 2002,
				2003, 2004, 2005, 2006
				Expat maintainers.
ExtractMpeg		Apache	http://bigflake.com/mediacodec/ExtractM	Copyright 2013, The
FramesTest.		License	pe gFramesTest.java.txt	Android Open Source
java		2.0	po ar rames restijava.tvi	Project
FreeType	2.5.5	FreeType	www.freetype.org	Portions of this software
Пестурс	2.5.5	Project	www.neetype.org	are copyright ©
		license		2006 The FreeType
		licerise		Project
GCC libstdc++	4.1.2	GNU	http://gcc.gnu.org/libstdc++	Copyright © 1994 to 2009
GCC IIDSIUCTT	4.1.2	General	Tittp://gcc.grid.org/iibstdc++	Free Software Foundation,
	4.4.5	Public		· 1
				Inc.
		License		
		v2.0 or		



		later		
Internal Android OS APIs	android2.3.3 _r1 android4.0.1	Apache License 2.0		Copyright 2005-2013, The Android Open Source Project
	_r1 android4.1.1			,
	_r1 android4.2.1 _r1			
	android4.3_ r1 android4.4			
	r1			
JRTPLIB	3.9.1	MIT License	http://research.edm.uhasselt.be/~jori/.	
JThread	1.3.1	MIT License	http://research.edm.uhasselt.be/~jori/.	Copyright © 1999-2011 Ross Bencina and Phil Burk
keysymdef		MIT open group variant license Digital equipme nt license	/main/28	Copyright © 1987, 1994, 1998 The Open Group. Copyright © 1987 by Digital Equipment Corporation, Maynard, Massachusetts.
libjpegturbo	1.2.1	libjpeg license	http://sourceforge.net/projects/libjpegturbo/.	Copyright © 1991-2011 Thomas G. Lane, Guido Vollbeding, Pierre Ossman for Cendio AB, and D. R. Commander
libpng	1.2.52	libpng license		Copyright © 2004 and 2006-2014 Glenn Randers-Pehrson
LibTomCrypt	1.16	Public domain	http://libtom.org	
LibTomMath	0.39	Public domain	http://libtom.org	
libudev	142 and 150	GNU Lesser General Public License v2.1 or later	http://www.kernel.org/pub/linux/utils/kernel/hotplug.	Copyright © 2008-2010 Key Sievers <key.sievers@vrfy.org> Copyright © 2009 Alan Jenkins <alanjenkins@tuffmail.co. uk=""></alanjenkins@tuffmail.co.></key.sievers@vrfy.org>
libupnp (pupnp)	1.6.19	BSD 3- Clause "New" or "Revised" License		Copyright (c) 2000-2003 Intel Corporation. Copyright (c) 2005-2006 Rémi Turboult <r3mi@users.sourceforge. net=""> Copyright (c) 2006 Michel Pfeiffer and others <virtual_worlds@gmx.de> .</virtual_worlds@gmx.de></r3mi@users.sourceforge.>

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libusb	1	GNU Lesser General Public License v2.1 or later	Trance relection.
libusbx	1.0.12	GNU Lesser General Public License v2.1 or later	Copyright © 2001 Johannes Erdfelt <johannes@erdfelt.com> Copyright © 2007-2009 Daniel Drake <dsd@gentoo.org> Copyright © 2008-2011 Nathan Hjelm <hjelmn@users.sourcefor ge.net=""> Copyright © 2009-2012 Pete Batard <pete@akeo.ie> Copyright © 2010-2012 Michael Plante <michael.plante@gmail.co m=""> Copyright © 2011-2012 Hans de Goede <hdegoede@redhat.com> Copyright © 2012 Martin Pieuchot <mpi@openbsd.org> Copyright (C) 1994, 1995, 1996, 1999, 2000, 2001, 2002, 2004, 2005, 2006 Free Software Foundation, Inc.</mpi@openbsd.org></hdegoede@redhat.com></michael.plante@gmail.co></pete@akeo.ie></hjelmn@users.sourcefor></dsd@gentoo.org></johannes@erdfelt.com>
libxml2	2.9.1	MIT License	Copyright © 1998-2012 Daniel Veillard
libzip	0.9	Free Software Foundati on	Copyright © 1999-2008 Dieter Baron and Thomas Klausner Copyright © 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Free Software Foundation, Inc Copyright © 1987, 1993 The Regents of the University of California
LodePNG	20141130	Zlib license	Copyright © 2005-2014 Lode Vandevenne.

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miniupnpc	1.5	Zlib license		Copyright © 2005-2009 and 2005-2011 Thomas Bernard
miniupnpc	1.5	BSD 3- Clause "New" or "Revised" License		Copyright © 2005-2009 and 2005-2011 Thomas Bernard. See section 7.1.20
mxcfb.h		GNU Lesser General Public License v2.1 or later		Copyright 2004-2010 Freescale Semiconductor Inc. All rights reserved.
OpenSSL	0.9.8zf	The OpenSSL Project license		Copyright © 1998-2011 The OpenSSL Project. See section 7.1.3.1. Copyright © 1995-1998 Eric Young. See section 7.1.3.2.
portaudio	19	MIT	http://www.portaudio.com/.	Copyright © 1999-2011 Ross Bencina and Phil Burk.
portaudio	19	MIT License	http://www.portaudio.com/.	Copyright © 1999-2011 Ross Bencina and Phil Burk.
pythonpsutil_2.1. 3.bb	FSL Community BSP 1.6 (Daisy)	MIT license		Copyright © 2012-2014 Otavio Salvador.
Qt libraries	ARM builds: 4.7.1. Non-ARM builds: 4.6.2.	GNU Lesser General Public License v2.1 or later		Copyright © 2009-2011 Nokia Corporation and/or its subsidiary(-ies). Nokia, Qt and their respective logos are trademarks of Nokia Corporation in Finland and/or other countries worldwide.
SHA	38969	Dr Brian Gladman license Cameron Rich license		Copyright © 2002 Dr Brian Gladman, Worcester, UK
wpa_supplicant	2.3	BSD 3- Clause "New" or "Revised" License		Copyright © 2002-2014 Jouni Malinen and contributors.
X Windows	XFree86 1.9	The Open group license		Copyright © 1987, 1988, 1989, 1998 The Open Group. See section 7.1.1.1.

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		Digital Equipme nt cooperati on license Digital Equipme nt Corporati on - Panorami x compone nts	Copyright © 1987, 1988, 1989 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.2. Copyright © 1991, 1997 Digital Equipment Corporation, Maynard, Massachusetts. See section 7.1.1.3
Zlib	1.1.4	Zlib license	Copyright © 1995-2002 Jean-loup Gailly and Mark Adler. See section 7.1.2.
Zlib	1.2.3	Zlib license	Copyright © 1995-2005 Jean-Loup Gailly and Mark Adler.

## 3.11.Supplier : Redbend\_SWM

Supplier: Redbend_SWM					
Component	Version License		Home Page	Copyrigh t	
action	0.1.1	Apache License 2.0	http://repo1.maven. org/maven2/com/nin g/metrics.action/		
Android - platform - dalvik	2.1_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android - platform - frameworks - base	4.0.1_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android - platform - prebuilts - sdk	4.4_r1	Apache License 2.0	http://developer.and roid.com/index.html		
Android SDK Support Libraries	19	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html		
Android SDK Support Libraries	23.1.1	Apache License 2.0	https://developer.an droid.com/tools/sup port-library/index.html		
Drools :: Scorecards	5.5.0.Final	Apache License 2.0	http://mirrors.ibiblio. org/maven2/org/drools/droolsscorecards/		
mongolduu	master- 20121109	Apache License 2.0	http://github.com/tug stugi/mongolduu/		
Stan-for-Android	0.1.0	Apache	http://github.com/La bel305/Stan-forAndroid/		



		License		
doT	1.0.1	2.0 MIT	http://github.com/ola do/doT/	
jquery	2.0.3	License MIT	http://github.com/jqu ery/jquery/	
jquery_mobile_rail	1.3.2	License MIT License	http://rubygems.org/gems/jquery_mobile_rail	
SafeSlinger- Android	1.8.3- messenge	MIT License	s http://github.com/Sa feSlingerProject/Saf eSlinger-Android/	
OpenSSL	Generic Version	OpenSSL Combine d License	http://www.openssl.org/	
CRC32 MIT.edu	Generic Version	Public Domain	http://web.mit.edu/	
SHA-1 in C	9/1/2001	Public Domain	http://www.mirrors.w iretapped.net/securit y/cryptography/hash es/sha1	
SyncML C Toolkit	4.0.3	SyncML License	http://sourceforge.n et/projects/syncmlctoolkit/	

### 3.12.Supplier : Redbend

Component	Versio n	License	Home Page	Copyrigh t
7 Zip - LZMA SDK	9.2	Public Domain	http://www.7-zip.org/sdk.html	
7 Zip - LZMA SDK	4.01	Public Domain.	http://sourceforge.net/projects/sevenzip/	
Android - platform - bootable - recovery	4.2	Apache License 2.0	http://developer.android.com/index.html	
Android - platform - system - core	4.2	Apache License 2.0	http://developer.android.com/index.html	
bsdiff	4.3	BSDiff license	http://github.com/geraldonetto/bsdiff/	
CMarkup	11.05	Acquired CMarkup Developer License	http://www.firstobject.com/dn_markup.htm	
CRC table (Autogen)	Has no version number	Public Domain	http://en.wikipedia.org/wiki/Cyclic_redundanc y_check	
Filesystem in Userspace	2.8.5	BSD 2- clause "Simplified" License	http://sourceforge.net/projects/fuse/	
Filesystem in Userspace	2.9.3	GNU Lesser General Public	http://sourceforge.net/projects/fuse/	

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		License v2.1 or later		
FreeBSD	2.2.2	BSD 4- clause "Original" or "Old" License	http://www.freebsd.org	
Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56x x	2.10 special edition	Commercia I license		
GNU C Library - glibc	2.2.4	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/libc/libc.html	
Lawicel CAN USB sample code	0.1.8	Lawicel CAN USB sample code license	http://www.can232.com/?page_id=75	
libdivsufsort	2.0.0	MIT License	http://code.google.com/p/libdivsufsort/	
Iz4	94	BSD 2- clause "Simplified" License	http://code.google.com/p/lz4/	
LZO real-time data compression library	2.04	Acquired commercial license	http://www.oberhumer.com/opensource/lzo/	
MSDN Sample Code	vs.85	Microsoft Limited Public License (Ms-LPL)	http://msdn.microsoft.com/en-US/windows/	
NetBSD	6	BSD 3- clause "New" or "Revised" License	http://www.netbsd.org/	
UCL Data Compression Library	1.03	Acquired commercial license	http://www.oberhumer.com/opensource/ucl/	
XMLFoundation	Apr-14	MIT License	http://xmlfoundation.codeplex.com/	
zlib	1.2.3	zlib License	http://www.zlib.net	



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3.13.Supplier : Teseo

Supplier: Teseo				
Component name	Version	License	Homepage	Copyright
FATFS				

# 3.14.Supplier : SK\_telecom

Component	Versi	License	Homepage	Copyright
name	on			
aladdin-md5	Unspe cified	zlib License	https://opensource.apple.c om/source/cups/cups- 30/cups/md5.h.auto.html	Copyright (C) 1999 Aladdin Enterprises
Alsa Libraries	Unspe cified	GNU Lesser General Public License v2.1 or later	http://www.alsa- project.org/	
Android - platform - frameworks - base	androi d- 7.0.0_ r1	Apache License 2.0	https://android.googlesour ce.com/platform/framewor ks/base	(C) 2015 The Android Open Source Project
Android - platform - frameworks - base	Unspe cified	Apache License 2.0	https://android.googlesour ce.com/platform/framewor ks/base	
Anti-Grain Geometry	Unspe cified	Anti-Grain Geometry Public License	http://sourceforge.net/proje cts/vector-agg/	Copyright (C) 2002-2005 Maxim Shemanarev
Boost C++ Libraries - boost	Unspe cified	Boost Software License - Version 1.0	http://boost.org/	
Code Project - C++ Memory Pool	1	The Code Project Open License (CPOL) 1.02	http://www.codeproject.co m/KB/cpp/MemoryPool.as px	
Curl and Libcurl	Unspe cified	curl License	http://github.com/curl/curl/	Copyright (C) 1998 - 2011, Daniel Stenberg
gecko-dev	Unspe cified	BSD 3-clause "New" or "Revised" License	http://github.com/mozilla/g ecko-dev/	(C) 2002 Jean-Marc Valin
gpclib	Unspe cified	Commercial License	http://github.com/rdpeng/g pclib/	Copyright: (C) 1997-2004, Advanced Interfaces Group, University of Manchester.
GSM 06.10 Lossy Speech Compression	Unspe cified	GSM License	http://kbs.cs.tu- berlin.de/~jutta/toast.html	Copyright 1992, 1993, 1994 by Jutta Degener and Carsten Bormann
GStreamer	Unspe cified	GNU Library General Public License v2 or later	http://gstreamer.freedeskto p.org/modules/	



jsoncpp	Unspe cified	Public Domain or MIT	http://sourceforge.net/proje cts/jsoncpp/	Copyright (c) 2007-2010 by Baptiste Lepilleur and The JsonCpp Authors,
libogg	Unspe cified	BSD 3-clause "New" or "Revised" License	http://xiph.org/ogg/	Copyright (c) 2002, Xiph.org Foundation
libxml2	Unspe cified	MIT license	http://xmlsoft.org/	
OpenGL- Examples	maste r- 20141 123	zlib License	http://github.com/progschj/ OpenGL-Examples/	Copyright (c) 2012 Jakob Progsch
OpenSSL	1.0.2	OpenSSL Combined License	http://www.openssl.org	
Opus	Unspe cified	BSD 3-clause "New" or "Revised" License	http://opus-codec.org	Copyright (c) 2007-2008 CSIRO Copyright (c) 2007-2010 Xiph.Org Foundation Copyright (c) 2008 Gregory Maxwell
pkgconf	Unspe cified	ISC License	http://github.com/pkgconf/ pkgconf/	Copyright (c) 1998 Todd C. Miller
pugixml	Unspe cified	MIT license	http://pugixml.org/	Copyright (c) 2006-2018 Arseny Kapoulkine
PVRTC Library	Unspe cified	Unspecified	https://www.imgtec.com/de velopers/powervr-sdk- tools/installers/	
SDL	2	zlib License	http://www.libsdl.org/index.php	Copyright (C) 1997-2016 Sam Lantinga
SDL_gfx	Unspe cified	zlib License	http://sourceforge.net/proje cts/sdlgfx/	
Speex	1.2bet a2 dev	BSD 3-clause "New" or "Revised" License	http://www.speex.org/	
SQLite	Unspe cified	Public domian	http://www.sqlite.org/	
Sunrise/set calculator	Unspe cified	Public domian	https://stjarnhimlen.se/com p/sunriset.c	
tiny-AES128- C	20141 218	Public domian	http://github.com/kokke/tin y-AES128-C/	
wosh	Unspe cified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/wosh/	Copyright (C) 2002 Michael Ringgaard. All rights reserved.
zlib	1.2.11	zlib License	http://www.zlib.net/	



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XC_CT	XC_CT_PRJ_RN_AIVI_Scope2.1	10th July 2023

# **3.15.Node Modules Components**

SI. No.	Name of OSS Comp onent	Version of OSS Compone nt	Name and Version of License (License text can be found in Appendix below)	More Information
1	Acl	2.2.53- 4co1bv20 19.0b1	LGPL-2.1+ Other licenses: FSF Public-domain X11 GPL V3 or later with autoconf exception GNU Libtool GPL V3 or later with exception	Copyright © 2011 Andreas Gruenbacher Copyright 1992-2018 Free Software Foundation, Inc. Copyright © 2018 Silicon Graphics, Inc.
2.	Aperti spro- archiv e- keyrin g	0.2rb1bv2 020.0b1	GPL-2.0+	Copyright: 2012 RBEI Ltd.
3.	Appar mor	2.13.2- 10co2bv2 020preb3	GPL-2.0 Other licenses: LGPL-2.1 Public-domain X11 MIT GPL-2.0+-with-libtool-exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception FSFAP FSFUL BSD-3-Clause	Copyright 1992-2018 Free Software Foundation, Inc. Copyright (c) Christian Boltz 2018 Copyright (c) 2017 SUSE LINUX GmbH, Nuernberg, Germany. Copyright (c) 2017 Rosetta Contributors and Canonical Ltd 2017 Copyright (c) 2009 Dulmandakh Sukhbaatar Copyright (c) 2008 Dominic Reynolds. Copyright (c) 2006 SUSE Linux Products GmbH, Nuernberg, Germany. Copyright (c) 2006 Novell, Inc. All Rights Reserved. Copyright (c) 1999, 2000, 2001, 2002, 2003 2004, 2005, 2006, 2007 NOVELL (All rights reserved) Copyright (C) 2013 Kshitij Gupta Copyright (C) 2009 John Dong Copyright (C) 2009 Dulmandakh Sukhbaatar Copyright (C) 2009 Dulmandakh Sukhbaatar Copyright (C) 2007 Andreas Gruenbacher Copyright (C) 2006 Volker Kuhlmann Copyright (C) 2006 SuSE Linux Products GmbH, Nuernberg Copyright (C) 1994 X Consortium Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.
4.	Attr	2.4.48- 4co1bv20	Cher licenses: GPL-2.0+	Copyright (C) 2007 Andreas Gruenbacher <a.gruenbacher@computer.org> Copyright 1992-2018 Free Software</a.gruenbacher@computer.org>

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		19.0b1	FSF Public-domain X11	Foundation, Inc. Copyright (c) 2001-2003,2005 Silicon Graphics, Inc. All Rights Reserved. Copyright (C) 2015 Dmitry V. Levin Copyright (C) 2008 Petr Pisar Copyright (C) 2007 Antonio Trueba Copyright (C) 2005 Guilhelm Panaget Copyright (C) 2004-2015 Free Software Foundation, Inc. Copyright (C) 2004, 2005 Jakub Bogusz Copyright (C) 2004 Luk Claes Copyright (C) 1994 X Consortium Copyright (C) 1995-1997, 2000-2007, 2009-2010 by Ulrich Drepper
5.	Audit	2.8.4- 3bv2020p reb2	GPL-2.0 only LGPL-2.1 only Other licenses: X11 Public-domain MIT GPL-2.0+-with-libtool-exception GPL V2 or later with autoconf exception GPL V3 or later with autoconf exception GNU Libtool GPL V3 or later with exception FSFUL	Clause  Copyright 2014,2016,2017 Red Hat Inc., Durham, North Carolina. Copyright 2008 FUJITSU Inc. Copyright 2005-18 Steve Grubb Copyright 1992-2017 Free Software Foundation, Inc. Copyright (©) 2011 Emanuele Giaquinta All rights reserved. Copyright (©) 2009-2015 Marc Alexander Lehmann Copyright (c) 2015 Steve Grubb sgrubb@redhat.com Copyright (c) 2011 IBM Corp. All Rights Reserved. Copyright (C) 1994 X Consortium
6.	base- files	10.3+deb 10u3co4~ v2020.0bv 2020.0b1	GPL-2.0+ Other licenses: MPL-2.0 LGPL-2.1+ LGPL-2.0+ GFDL-1.3 CC0-1.0 BSD-3-Clause Artistic-1.0-Perl Apache-2.0 GPL-2.0+ GPL-1.0+	Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
7.	base- passw d	3.5.46co1 bv2019.0b 1	GPL-2.0+ Other licenses: 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 HessCopyright (C) of this file 2014 Chris Leick Copyright (C) Helge Kreutzmann. Copyright (C) 2010 Software in the Public

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				Interest
				Copyright (C) 2010 Free Software Foundation, Inc.
				1
0	C	0.0	CDL 2.0.	Copyright (C) 2004 Nicolas FRANCOIS
8.	Coreu	6.9-	GPL-2.0+	Copyright 1991-2004 Miquel van
	tils	0co11ba1	Other licenses:	Smoorenburg
			Public-domain	Copyright 1989, 1991-2016 Free Software
			GPL V2 or later with autoconf	Foundation, Inc.
			exception	Copyright (c) 1996-1999 by Internet Software
			GPL-2.0	Consortium.
			BSD-3-Clause	Copyright (c) 1990, 1993, 1994 The Regents
			GFDL-1.2	of the University of California. All rights
			ISC	reserved.
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- 6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions? Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.
- 7. I want to sell a software package that uses these fonts: Can I do so?
- Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.
- 8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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V3.0 03/08/2004 -Initial Version for sqlite3

V3.1 16/09/2004 -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

V3.2 01/07/2005 -Fixed execScalar to handle a NULL result

12/07/2007 -Added CppSQLiteDB::IsAutoCommitOn()

-Added int64 functions to CppSQLite3Query

-Added Name based parameter binding to CppSQLite3Statement.

## V3.3 02/14/2019

-Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);

CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char \*str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

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	from				comp	atible?	' (1)
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1.3 thru 1.	.5.2 1.2		1995-	1999	CNI	રા	yes
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2.1	2.0+1.6	.1 2	2001	Р	SF	no	
2.0.1	2.0+1.0	6.1 i	2001	F	PSF	yes	5
2.1.1	2.1+2.0	0.1	2001	F	PSF	yes	5
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#### Modified files

07/11/2019 Patched "(URL: https://github.com/bdarnell/tornado/tree/cython)" by OBIGO

- gen.py Fix coroutines in cython-compiled code
- gen\_test.py Add a complier directive to get gen\_test (mostly) working when cythonized
- options.py Work around cython incompatiblities in options.py
- options\_test.py Work around cython incompatiblities in options.py
- util.py Make ArgReplacer compatible with cython.
- web\_test.py Also cythonize as many of the tests as possible.

#### 4.106.zlib license

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.4, March 14th, 2010

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- V3.0 03/08/2004 -Initial Version for sqlite3
- V3.1 16/09/2004 -Implemented getXXXXField using sqlite3 functions

-Added CppSQLiteDB3::tableExists()

V3.2 01/07/2005 -Fixed execScalar to handle a NULL result

12/07/2007 -Added int64 functions to CppSQLite3Query



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-Throw exception from CppSQLite3DB::close() if error

-Trap above exception in CppSQLite3DB::~CppSQLite3DB()

-Fix to CppSQLite3DB::compile() as provided by Dave Rollins.

-sqlite3\_prepare replaced with sqlite3\_prepare\_v2

-Added Name based parameter binding to CppSQLite3Statement.

V3.3 02/14/2019 -Added CppSQLite3Statement(\_\_sqlite3\* pDB, \_\_sqlite3\_stmt\* pVM);

CppSQLite3Statement::bind(int nParam, const sqlite\_int64 nValue);

CppSQLite3Statement::bind(int nParam, const uint64\_t nValue);

CppSQLite3Statement::Step()

CppSQLite3Statement::DoTransaction(const char \*str)

CppSQLite3Statement::BeginTransaction()

CppSQLite3Statement::CommitTransaction()

CppSQLite3Statement::RollbackTransaction()

CppSQLite3DB::getDB()

CppSQLite3DB::RestoreOrBackupDb() by OBIGO

05/07/2019 -Modified CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO Page **543** of **544** 



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05/10/2021 -throw exception from CppSQLite3DB::CommitTransaction(const char \*str = NULL) by OBIGO

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