



Big Switch Networks Open Source Components

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Chapter 1. Document Purpose

This document describes the third-party and Open Source dependencies of products from Big Switch Networks (BSN). This document describes the internal dependencies for vulnerability assessment and the implications of any licenses inherited when deploying our products. The document is the "published documentation" referred to in the Big Switch Networks end-user license agreement (EULA).

Open Source Software

The Software is distributed with certain independent software that is licensed under an open source license (such software, "Open Source Software"). The Open Source Software is identified in BSN's published documentation for the Software. To the extent that any of the terms and conditions of this Agreement that govern your use of the Software conflict with, or are in addition to, the terms of any such open source license, the conflicting or additional terms will not apply to the corresponding Open Source Software.

This document makes a distinction between "linked with BSN Software" and "distributed with BSN Software." This distinction may have implications regarding how the software is used based on Open Source software licenses, for example, the GNU General Public License (GPL). Any code that runs in the same process with BSN software is "linked with" while software that runs in a different process from BSN software is "distributed with."

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN controller (platform) software.

Chapter 2. Open Source Components Used for Fabric Controllers

This chapter lists the Open Source components used with the Big Cloud Fabric (BCF) and Big Monitoring Fabric (BMF) controllers.

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN controller (platform) software.

Table 1: Open Source Components Used with Fabric Controllers

Open Source Component	License	Linked or Distributed?
Elasticsearch Curator	Apache 2.0	Linked
Elasticsearch/Logstash/Kibana	Apache 2.0	Linked
Floodlight	Apache 2.0	Linked
Thrift	Apache 2.0	Linked
Python	PSF	Linked
Python PeriodicTimer	PSF	Linked
OpenJDK	GPLv2, with Classpath Exception and OpenJDK assembly exception. http://openjdk.java.net/legal/gplv2+ce.html http://openjdk.java.net/legal/assembly-exception.html	Linked
SLF4J	MIT	Linked
EasyMock	Apache 2.0	Linked
log4j	Apache 2.0	Linked
Jackson	Apache 2.0	Linked
JSON.lua	Creative Commons	Linked
Logback	Eclipse 1.0 /LGPL 2.1	Linked
Netty	Apache 2.0	Linked
Restlet	Used under Apache Version 2. https://opensource.org/licenses/apache-2.0 Apache 2.0/LGPL 2.1/LGPL 3.0/CDDL 1.0/EPL 1.0	Linked
Simple Web Framework	Apache 2.0	Linked
Ubuntu Linux	Various, https://www.ubuntu.com/about/about-ubuntu/licensing	Distributed
Google Guava Library	Apache 2.0	Linked
Apache HTTP Components (httpcore, httpclient)	Apache 2.0	Linked
junit	Eclipse 1.0	Linked

hamcrest	BSD	Linked
Free Range Routing (FRR)	GNU General Public License v2	Distributed
Jedis (Redis client)	MIT license	Linked
Apache Commons pool	Apache 2.0	Linked
joda-time	Apache 2.0	Linked
metrics	MIT license	Linked

Chapter 3. Open Source Components Used for Switch Software

This chapter lists the Open Source components used with the SwitchLight OS and SwitchLight VX software.

SwitchLight OS

Table 2: SwitchLight OS Open Source Components

Open Source Component	License	Linked or Distributed?
Open Network Linux	EPLv1	Distributed
Indigo Open Flow Implementation	EPLv1	Linked
Bigcode OSS	EPLv1	Linked
Loxigen	EPLv1	Linked
oftest	OpenFlow Software License	Distributed
pam_tacplus	GPLv2	Distributed

SwitchLight VX

Table 3: SwitchLight VX Open Source Components

Open Source Component	License	Linked or Distributed?
Indigo Open Flow Implementation	EPLv1	Linked
Bigcode OSS	EPLv1	Linked
Loxigen	EPLv1	Linked
Lua	Lua.org , PUC-Rio, Brazil (http://www.lua.org)	Linked
openvswitch.h	Apache 2.0 or GNU GPL 2.0 or later	Linked

Chapter 4. BCF Plugins

This chapter lists the Open Source software components used with the following BCF plugin software.

- NSAPI
- Routing Stack Plugin
- OVSDDB Plugin
- BCF Container Plugin
- BCF OpenStack Plugin
- SDDC Integration (VMware/Nutanix integration)

NSAPI

Table 4: NSAPI Components

Open Source Component	License	Linked or Distributed?
simplejson	MIT license	Linked
requests	Apache 2.0	Linked
django	BSD	Linked
lockfile	MIT license	Linked
mock	BSD	Linked
netaddr	BSD	Linked
redis	MIT License	Linked

Routing Stack Plugin

Table 5: Routing Stack Plugin

Open Source Component	Licenses	Linked or Distributed?
django	BSD	Linked
mock	BSD	Linked
setuptools	MIT License	Linked
pexpect	ISC License	Linked
pyroute2	dual license GPLv2+ and Apache v2	Linked
thrift	Apache v2	Linked

OVSDB Plugin

Table 6: OVSDB Plugin

Open Source Component	Licenses	Linked or Distributed?
requests	Apache 2.0	Linked
mock	BSD	Linked
setuptools	MIT License	Linked
thrift	Apache v2	Linked

BCF Container Plugin

Table 7: BCF Container Plugin

Open Source Component	License	Linked or Distributed?
Go-YAML	Apache	Linked
ETCD	Apache 2.0	Distributed
ETCD Client	Apache 2.0	Linked
Docker Go-Plugin-Helper	Apache 2.0	Linked
Netlink	Apache 2.0	Linked
NetNS	Apache 2.0	Linked
K8s API Machinery	Apache 2.0	Linked
K8s Client-Go	Apache 2.0	Linked
K8s API	Apache 2.0	Linked
Google UUID	BSD 3-Clause 'New'	Linked
Golang	Go Authors	Linked
Golang Net	Go Authors	Linked
Golang Sys	Go Authors	Linked

Ansible	GPL v3.0	Distributed
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BCF OpenStack Plugin

Table 8: BCF OpenStack Plugin

Open Source Component	License	Linked or Distributed?
OpenStack Neutron	Apache 2.0	Distributed
cliff	Apache 2.0	Distributed
pyroute2	Apache 2.0	Plugin/Test
babel	BSD	Distributed
os-vif	Apache 2.0	Distributed
tap-as-a-service	Apache 2.0	Distributed
pbr	Apache	Distributed
subprocess32	Python SFL	Distributed
futures	Python SFL	Distributed
pyyaml	MIT	Distributed
netaddr	BSD/MIT	Distributed
tempest-lib	Apache	Distributed

SDDC Integration (VMware/Nutanix integration)

Many Open Source components are the same as for the platform components. The following are the additional Open Source components used for VMware and Nutanix integration.

Table 9: VMware and Nutanix integration Open Source Components

Open Source Component	License	Linked or Distributed?
yavijava	BSD-3	Linked

SLF4J	MIT	Linked
EasyMock	Apache 2.0	Linked
log4j	Apache 2.0	Linked
concurrentlinkedhashmap	Apache 2.0	Linked
Restlet	Apache 2.0	Linked
dom4j	BSD	Linked
Google Guava Library	Apache 2.0	Linked
JUNIT	Eclipse 1.0	Linked
hamcrest	BSD	Linked

Chapter 5. BMF (Big Mon) Appliances

The Big Monitoring Fabric controller and switch software has the same open source dependencies as the Big Cloud Fabric. This chapter lists the additional Open Source components used in BMF and Big Mon products.

- Big Mon Analytics
- Big Mon Service Node
- Big Mon Packet Recorder

Big Mon Analytics

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN platform software.

Table 10: Big Mon Analytics Open Source Components

Open Source Component	License	Linked or Distributed
Elasticsearch / Logstash / Kibana / Curator / MetricBeat	Apache 2.0	Distributed
Docker/Docker-compose	Apache 2.0	Distributed
Redis	BSD	Distributed
Guava Library	Apache 2.0	Distributed
Lua	MIT	Distributed
Nginx	BSD	Distributed
JSON.lua	Creative Commons	Distributed
Ubuntu	Various	Distributed
GoLang	Go	Distributed
Python	PSF	Distributed
openjdk8	GPLv2, with Classpath Exception and OpenJDK assembly exception. http://openjdk.java.net/legal/gplv2+ce.html http://openjdk.java.net/legal/assembly-exception.html	Distributed
jq	MIT	Distributed
jinja2	BSD	Distributed
pandas	BSD	Distributed
matplotlib	PSF	Distributed
phantomjs 2.1.1	BSD	Distributed
lua lanes, penlight, redis-lua, luasockets, log.lua	MIT	Distributed

Big Mon Service Node

Many Open Source components used in Switch Light are also used for the Big Mon Service Node. The following table lists additional Open Source components used.

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN platform software.

Table 11: Service Node: Additional Open Source Components

Open Source Component	Version	License	Linked or Distributed?
DPDK	17.05.0	Open Source BSD licensed	Linked
Intel CMT-CAT	1.02	BSD LICENSE https://github.com/intel/intel-cmt-cat	Linked
Scapy	2.2.0	GPLv2	N/A
Ubuntu	16.04.3 LTS	https://www.ubuntu.com/about/about-ubuntu/licensing	Linked
Loxigen		EPLv1	Linked
BigCode OSS		https://github.com/floodlight/bigcode/blob/master/LICENSE	Linked
PCRE2	10.20 30-June-2015	http://www.pcre.org/licence.txt	Linked
SLJIT	sljit-r313	BSD License	Linked
BPFJIT	0.1	https://github.com/alnsn/bpfjit/blob/master/LICENSE	Linked
LUA-JIT	luajit-2.0	MIT license	Linked
Influxdb	2.0	https://github.com/influxdata/influxdb	N/A

Big Mon Packet Recorder

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN platform software.

Table 12: Big Mon Packet Recorder

Open Source Component	License	Linked or Distributed?
Ubuntu	https://www.ubuntu.com/about/about-ubuntu/licensing	Distributed
Loxigen	EPLv1	Linked
Nginx	BSD	Distributed
Stenographer	Apache 2.0	Linked
nDPI	GNU GPLv3	Distributed
tcptrace	GNU GPL	Distributed
tshark	GNU GPLv2	Distributed
tcpreplay	GNU GPLv3	Distributed

Chapter 6. Other Open Source Libraries Used

This chapter lists the following Open Source software components used in BSN software.

- Python Libraries
- Java Libraries (Maven)
- GUI Open Source Components
- Javascript Libraries
- Fonts

Python Libraries

Table 13: Python Libraries Used

Open Source Component	Licenses	Linked or Distributed?
PyYAML	MIT	Linked
Arrow	Apache 2.0	Linked
backports.ssl-match-hostname	Python Software Foundation License	Linked
cached-property	BSD	Linked
chardet	LGPL	Linked
ciso8601	MIT	Linked
Django	BSD	Linked
docker	Apache 2.0	Linked
docker-compose	Apache 2.0	Linked
docker-pycreds	Apache 2.0	Linked
dockerpty	Apache 2.0	Linked
docopt	MIT	Linked
ecdsa	MIT	Linked
elasticsearch	Apache 2.0	Linked
elasticsearch-curator	Apache 2.0	Linked
enum	Python Software Foundation License GPL	Linked
enum34	BSD License	Linked
flup	BSD	Linked

functools32	Python Software Foundation License	Linked
ipaddr	Apache 2.0	Linked
ipaddress	Python Software Foundation License	Linked
jsonschema	MIT	Linked
lockfile	MIT	Linked
netaddr	BSD	Linked
netifaces	MIT	Linked
paramiko	LGPL	Linked
pexpect	ISC	Linked
ptyprocess	ISC	Linked
pycrypto	PD	Linked
pycurl	MIT LGPL	Linked
pygraphviz	BSD	Linked
pyroute2	Apache 2.0	Linked
pysqlite	zlib/libpng	Linked
python-apt	GPL 2.0	unused (installed with/OS tools)
python-dateutil	BSD	Linked
python-systemd	LGPL	Linked
pytz	MIT	Linked
redis	MIT	Linked
requests	Apache 2.0	Linked
setuptools	MIT	Linked
simplejson	MIT	Linked
six	MIT	Linked
sqlparse	BSD	Linked
texttable	LGPL	Linked
thrift	Apache 2.0	Linked
ujson	BSD	Linked
urllib3	MIT	Linked
websocket-client	LGPL	Linked

wheel	MIT	Linked
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Java Libraries (Maven)

Table 14: Java Libraries Used (Maven)

Open Source Component	Licenses	Linked or Distributed?
Thrift	Apache 2.0	Compilation
Jedis	MIT	Compilation
Junit	EPL 1.0	test
Easymock	Apache 2.0	test
Hamcrest	New-style BSD	test
Args4J	MIT	Linked
Logback	EPL 1.0 LGPL	Linked
Bouncy Castle	Bouncy Castle (MIT-style)	Linked
Bouncy Castle FIPS	Bouncy Castle (MIT-style)	Linked
Jackson	Apache 2.0	Linked
Findbugs Annotations	LGPL	Linked
Findbugs JSR305 Annotations	Apache 2.0	Linked
Error Prone Annotations	Apache 2.0	Linked
Guava	Apache 2.0	Linked
J2OBJ Annotations	Apache 2.0	Linked
ConcurrentLinkedHashMap	Apache 2.0	Linked
Apache Commons Codec	Apache 2.0	Linked
Apache Commons Logging	Apache 2.0	Linked
Apache Commons Pool	Apache 2.0	Linked
DNSJava	BSD-2-clause	Linked
Dropwizard Metrics	Apache 2.0	Linked
Netty	Apache 2.0	Linked
Sentry	BSD	Linked
Java XML Stream STAX	GPL CDDL	Linked
Joda Time	Apache 2.0	Linked

Log4j	Apache 2.0	Linked
JCIP annotations	Creative Commons Attribution	Linked
LZ4	Apache 2.0	Linked
JRadius	LGPL 3.0	Linked
Antlr	BSD	Linked
Derby	Apache 2.0	Linked
Apache HTTP Components	Apache 2.0	Linked
Apache Mime4J Core	Apache 2.0	Linked
animal-sniffer-annotations	MIT	Linked
Woodstox Stax2-API	BSD	Linked
Woodstox Core ASL	Apache 2.0	Linked
Jetbrains Annotations	Apache 2.0	Linked
Restlet	Apache 2.0	Linked
RRD4j	Apache 2.0	Linked
Simple Framework	Apache 2.0	Linked
SLF4j	MIT	Linked
MDNSJava	BSD	Linked
SnakeYAML	Apache 2.0	Linked
XML-APIs	Apache 2.0	Linked

GUI Open Source Components

Table 15: Operating System Packages Installed (Debian)

Open Source Component	License	Linked or Distributed?
nginx	Expat , BSD-4-clause , BSD-2-clause , BSD-3-clause	Distributed
uwsgi	GPL-2+, GPL-2	Distributed
uwsgi-plugin-python	GPL-2+, GPL-2	Distributed
make	GPL-3+	Distributed
python-argparse	Python license	Linked
python-chardet	LGPL-2.1+	Linked
python-django	Apache-2.0 , BSD-2-Clause , PSF, Expat, BSD-3-Clause and Expat , BSD-3-Clause, PSF-baseconv	Linked

python-pygraphviz	BSD-2-clause	Linked
python-pysqlite2	Zlib	Linked
python-redis	MIT, GPL, GPL-3	Linked
python-tz	Expat	Linked
redis-server	MIT, BSD-2-clause	Distributed
sqlite3	public-domain, GPL-2+	Linked

Javascript Libraries

Table 16: Open Source Components (Javascript Libraries)

Open Source Component	License	Linked or Distributed?
Dojo Toolkit (Version: 1.8.14)	New BSD license or the Academic Free License version 2.1	Linked

Fonts

Table 17: Open Source Components (Fonts)

Open Source Component	License	Linked or Distributed?
Josefin Sans bold light thin	SIL Open Font License, Version 1.1	Distributed
Lato bold hairline light regular	SIL Open Font License, Version 1.1	Distributed
Raleway bold extra light light thin	SIL Open Font License, Version 1.1	Distributed
Roboto bold light regular thin	Apache License, Version 2.0	Distributed

Chapter 7. Open Source Offerings

Open Network Linux

In addition to its commercial products, Big Switch publishes a number of open source software packages. They themselves have open source dependencies that must be tracked.

Note: *Appendix A: Ubuntu Open Source Components Used in BSN Platforms*, contains a detailed list of the Ubuntu components that are used in BSN controller (platform) software.

Open Network Linux

Table 18: Open Network Linux

Open Source Component	License	Linked or Distributed?
Debian Linux Distributions	Free	Base Linux Distribution
Floodlight Bigcode OSS	EPLv1	Common Application Libraries
Floodlight Infra OSS	EPLv1	Common Application Libraries

Appendix A: Ubuntu Open Source Components Used in BSN Platforms

This chapter lists the Open Source components from the Ubuntu operating system distribution that are used with Big Switch Networks (BSN) controller (platform) software.

Table 19: Open Source Components in Ubuntu for Controller / Appliance Platform

Open Source Component	License	Linked or Distributed?
acl	LGPL-2.1, LGPL-2	Distributed
adduser	GPL-2+, GPL-2	Distributed
adwaita-icon-theme	CC-BY-SA-3.0-US, LGPL-3	Distributed
apparmor	GPL-2+, BSD-3-clause or GPL-2+, BSD-3-clause, LGPL-2.1+, GPL-2	Distributed
apt	GPL-2+, GPL-2	Distributed
apt-transport-https	GPL-2+, GPL-2	Distributed
apt-utils	GPL-2+, GPL-2	Distributed
at-spi2-core	LGPL-2+, GPL-2, Public domain	Distributed
aufs-tools	GPL-2+	Distributed
base-files	GPL-2+	Distributed
base-passwd	PD, GPL-2	Distributed
bash	GPL-3+, GPL-3, BSD-2-clause	Distributed
bind9-host	BSD-2-clause	Distributed
binutils	GPL-3+	Distributed
bsd-mailx	BSD-3-Clause	Distributed
bsdutils	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
build-essential	GPL-2	Distributed
busybox-initramfs	GPL-2	Distributed
bzip2	BSD-2-clause, GPL-2	Distributed
ca-certificates	GPL-2+, MPL-2.0	Distributed
ca-certificates-java	GPL	Distributed
cgmanager	LGPL-2.1+, GPL-2	Distributed
cgroupfs-mount	GPL-3+	Distributed
collectd	LGPL-2+, ISC, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
collectd-core	LGPL-2+, ISC, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
colord	GPL-2+, CCO, LGPL-2.1+, GFDL-NIV	Distributed
colord-data	GPL-2+, CCO, LGPL-2.1+, GFDL-NIV	Distributed
console-setup	GPL-2	Distributed
console-setup-linux	GPL-2	Distributed
coreutils	GPL-3+, GPL-3, BSD-2-clause	Distributed
cpio	GPL-3+, GPL-3	Distributed
cpp	BSD-2-clause, GPL-2	Distributed
cpp-5	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
crda	copyleft-next-0.3.0, ISC	Distributed
cron	GPL-2+, Artistic, Paul-Vixie's-license and GPL-2+ and ISC, ISC, Paul-Vixie's-license	Distributed
curl	BSD-4-Clause, ISC, public-domain, curl, other, BSD-3-Clause	Distributed
daemon	GPL	Distributed
dash	BSD-2-clause, GPL-2	Distributed

dbus	BSD-3-clause-generic, Expat, GPL-2+ or AFL-2.1, and Tcl-BSDish, GPL-2+ or AFL-2.1, AFL-2.1, GPL-2+, g10-permissive, Tcl-BSDish, BSD-3-clause	Distributed
dbus-x11	BSD-3-clause-generic, Expat, GPL-2+ or AFL-2.1, and Tcl-BSDish, GPL-2+ or AFL-2.1, AFL-2.1, GPL-2+, g10-permissive, Tcl-BSDish, BSD-3-clause	Distributed
dconf-gsettings-backend	LGPL-2+, GPL-3, GPL-3+	Distributed
dconf-service	LGPL-2+, GPL-3, GPL-3+	Distributed
debconf	BSD-2-clause	Distributed
debconf-i18n	BSD-2-clause	Distributed
debiannutils	GPL-2	Distributed
default-jre-headless	GPL-2+	Distributed
dh-python	Expat	Distributed
diffutils	GPL-3+	Distributed
distro-info-data	ISC	Distributed
dkms	GPL-2+, GPL-2	Distributed
dmeventd	LGPL-2.1, LGPL-2, GPL-2	Distributed
dmidecode	GPL-2+	Distributed
dmsetup	LGPL-2.1, LGPL-2, GPL-2	Distributed
dns-root-data	ICANN-Public, Expat	Distributed
dnsmasq-base	GPL-3, GPL-2	Distributed
docker-engine	Apache-2.0	Distributed
dpkg	GPL-2+, public-domain-md5, BSD-2-clause, GPL-2, public-domain-s-s-d	Distributed
dpkg-dev	GPL-2+, public-domain-md5, BSD-2-clause, GPL-2, public-domain-s-s-d	Distributed
e2fslibs	LGPL-2, GPL-2	Distributed
e2fsprogs	LGPL-2, GPL-2	Distributed
eject	GPL-2+, GPL-2	Distributed
elasticsearch	Apache-2.0	Distributed
ethtool	GPL-2	Distributed
facter	GPL-2+, Apache-2.0, GPL-2+ or Ruby, Ruby, Expat	Distributed
fakeroot	GPL-3+, Artistic	Distributed
fcgiwrap	MIT, GPL-3	Distributed
file	BSD-2-Clause-regents, MIT-Old-Style-with-legal-disclaimer-2, BSD-2-Clause-alike, BSD-2-Clause-netbsd, public-domain	Distributed
findutils	GPL-3+, GPL-3	Distributed
fontconfig	MIT	Distributed
fontconfig-config	MIT	Distributed
fonts-dejavu-core	GPL-2+, bitstream-vera	Distributed
fonts-dejavu-extra	GPL-2+, bitstream-vera	Distributed
fonts-lato	GPL-2+, OFL-1.1	Distributed
fonts-liberation	GPL-2	Distributed
freeipmi-common	GPL-3+, LGPL-3+	Distributed
frr	GPL-2+	Distributed
fuse	GPL-2+, LGPL-2, GPL-2	Distributed
g++	BSD-2-clause, GPL-2	Distributed
g++-5	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
gcc	BSD-2-clause, GPL-2	Distributed
gcc-5	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic,	Distributed

	GPL-3+	
gcc-5-base	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
gcc-6-base	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
gcr	LGPL-2.1+	Distributed
geoip-database	OpenDataLicense	Distributed
geoip-database-extra	OpenDataLicense	Distributed
gettext-base	LGPL-2.1, GPL-3+	Distributed
gir1.2-glib-2.0	GPL-2+, , LGPL-2+	Distributed
git	Expat, GPL-1+ or Artistic-1, ISC, Apache-2.0, LGPL-2+, BSD-2-clause, GPL-2, GPL-2+, LGPL-2.1+, mingw-runtime, dlmalloc, Boost, EDL-1.0	Distributed
git-man	Expat, GPL-1+ or Artistic-1, ISC, Apache-2.0, LGPL-2+, BSD-2-clause, GPL-2, GPL-2+, LGPL-2.1+, mingw-runtime, dlmalloc, Boost, EDL-1.0	Distributed
glib-networking	LGPL-2+, LGPL-2.1+	Distributed
glib-networking-common	LGPL-2+, LGPL-2.1+	Distributed
glib-networking-services	LGPL-2+, LGPL-2.1+	Distributed
gnome-keyring	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+, GPL-2	Distributed
gnupg	RFC-Reference, GPL-3+ with OpenSSL exception	Distributed
gpgv	RFC-Reference, GPL-3+ with OpenSSL exception	Distributed
graphviz	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
grep	GPL-3+	Distributed
grub-common	MIT, GPL-3	Distributed
grub-gfxpayload-lists	GPL-3	Distributed
grub-pc	MIT, GPL-3	Distributed
grub-pc-bin	MIT, GPL-3	Distributed
grub2	MIT, GPL-3	Distributed
grub2-common	MIT, GPL-3	Distributed
gsettings-desktop-schemas	LGPL-2.1+	Distributed
gststreamer1.0-plugins-base	LGPL-2+, MIT/X11 (BSD like) LGPL-2+, GPL-2+, BSD (3 clause), BSD (2 clause)	Distributed
gzip	GPL-3+	Distributed
hicolor-icon-theme	GPL-2+	Distributed
hostname	GPL-2	Distributed
humanity-icon-theme	GPL-3, GPL-2	Distributed
i40e-dkms	GPL-2.0+	Distributed
ieee-data	GPL-2+, WTFPL-2, other	Distributed
ifupdown	GPL-2+	Distributed
indicator-application	GPL-3	Distributed
influxdb	MIT	Distributed
init	GPL-3+, BSD-3-clause	Distributed
init-system-helpers	GPL-3+, BSD-3-clause	Distributed
initramfs-tools	GPL-2	Distributed
initramfs-tools-bin	GPL-2	Distributed
initramfs-tools-core	GPL-2	Distributed
initscripts	GPL-2+, GPL-2	Distributed
insserv	GPL-2+, GPL-2	Distributed
intel-microcode	BSD-2-clause, GPL-2	Distributed
ipmitool	BSD-3-clause	Distributed
iproute	GPL-2	Distributed
iproute2	GPL-2	Distributed

iptables	GPL-2+, Artistic-2, custom, GPL-2	Distributed
iputils-arping	BSD-4-clause, BSD-2-clause	Distributed
iputils-ping	BSD-4-clause, BSD-2-clause	Distributed
isc-dhcp-client	ISC	Distributed
isc-dhcp-common	ISC	Distributed
iso-codes	LGPL-2.1+	Distributed
iucode-tool	GPL-2+, GPL-2	Distributed
iw	ISC	Distributed
java-common	GPL-2+	Distributed
javascript-common	GPL-2+	Distributed
jq	MIT, CC-BY-3.0, Apache-2.0, GPL-2.0+, Expat	Distributed
kbd	GPL-2+, GPL-any	Distributed
kexec-tools	GPL-2	Distributed
keyboard-configuration	GPL-2	Distributed
klibc-utils	BSD-2-clause, GPL-2	Distributed
kmod	LGPL-2.1, LGPL-2, GPL-2	Distributed
krb5-locales	MIT, ISC, BSD-2-clause, GPL-2	Distributed
less	GPL-3, BSD-2-clause	Distributed
libacl1	LGPL-2.1, LGPL-2	Distributed
libalgorithm-diff-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libalgorithm-diff-xs-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libalgorithm-merge-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libapparmor-perl	GPL-2+, BSD-3-clause or GPL-2+, BSD-3-clause, LGPL-2.1+, GPL-2	Distributed
libapparmor1	GPL-2+, BSD-3-clause or GPL-2+, BSD-3-clause, LGPL-2.1+, GPL-2	Distributed
libappindicator3-1	LGPL v2.1, GPL v3	Distributed
libapr1	Zlib, Apache-2.0, BSD-2-clause	Distributed
libapt-inst2.0	GPL-2+, GPL-2	Distributed
libapt-pkg5.0	GPL-2+, GPL-2	Distributed
libasan2	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libasn1-8-heimdal	BSD-2-clause	Linked
libasound2	LGPL-2.1, LGPL-2	Distributed
libasound2-data	LGPL-2.1, LGPL-2	Distributed
libasprintf0v5	LGPL-2.1, GPL-3+	Distributed
libassuan0	GAP~FSF, GAP, LGPL-3+, GPL-2+, LGPL-2.1+, GPL-2+ with libtool exception, GPL-3+	Distributed
libasyncns0	LGPL-2.1+	Distributed
libatasmart4	LGPL-2.1, GPL-3, LGPL-2	Distributed
libatk-bridge2.0-0	LGPL-2+, GPL-2	Distributed
libatk1.0-0	LGPL-2	Distributed
libatk1.0-data	LGPL-2	Distributed
libatm1	GPL-2+, GPL-2	Distributed
libatomic1	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libatspi2.0-0	LGPL-2+, GPL-2, Public domain	Distributed
libattr1	LGPL-2.1, LGPL-2, GPL-2	Distributed
libaudit-common	LGPL-2.1, LGPL-2	Distributed
libaudit1	LGPL-2.1, LGPL-2	Linked
libauthen-sasl-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libavahi-client3	LGPL-2.1, LGPL-2, BSD-2-clause, LGPL-2+, GPL-2	Distributed
libavahi-common-data	LGPL-2.1, LGPL-2, BSD-2-clause, LGPL-2+, GPL-2	Distributed

libavahi-common3	LGPL-2.1, LGPL-2, BSD-2-clause, LGPL-2+, GPL-2	Distributed
libbind9-140	BSD-2-clause	Distributed
libblkid1	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
libbluetooth3	LGPL-2.1, LGPL-2, GPL-2, MIT	Distributed
libboost-filesystem1.58.0	, Boost	Distributed
libboost-system1.58.0	, Boost	Distributed
libbsd0	BSD-2-clause-verbatim, BSD-4-clause-Niels-Provos, BSD-3-clause-Peter-Wemm, BSD-3-clause-Regents, ISC-Original, BSD-2-clause-NetBSD, ISC, BSD-4-clause-Christopher-G-Demetriou, BSD-2-clause, Expat, public-domain-Colin-Plumb, public-domain, Beerware, BSD-5-clause-Peter-Wemm, BSD-3-clause, BSD-2-clause-author	Distributed
libbz2-1.0	BSD-2-clause, GPL-2	Distributed
libc-ares2	MIT	Distributed
libc-bin	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libc-dev-bin	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libc6	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Linked
libc6-dev	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libc6-i386	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libcairo-gobject2	LGPL-2.1, LGPL-2, MIT	Distributed
libcairo2	LGPL-2.1, LGPL-2, MIT	Distributed
libcap-ng0	LGPL-2.1, GPL-3, LGPL-2, GPL-2	Distributed
libcap2	GPL-2+, BSD-3-clause or GPL-2+, BSD-3-clause, GPL-2, BSD-3-clause or GPL-2	Distributed
libcap2-bin	GPL-2+, BSD-3-clause or GPL-2+, BSD-3-clause, GPL-2, BSD-3-clause or GPL-2	Distributed
libcapnp-0.5.3	BSD-3-clause, BSD-2-clause	Distributed
libcc1-0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libcdparanoia0	GPL-2+, LGPL-2.1+	Distributed
libcdt5	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
libcgmanager0	LGPL-2.1+, GPL-2	Distributed
libcgraph6	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
libcilkrts5	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libcolor2	GPL-2+, CC0, LGPL-2.1+, GFDL-NIV	Distributed
libcolorhug2	GPL-2+, CC0, LGPL-2.1+, GFDL-NIV	Distributed
libcomerr2	MIT	Linked
libconfig-general-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libconfuse-common	ISC	Distributed
libconfuse0	ISC	Distributed
libcroco3	LGPL-2+	Distributed
libcryptsetup4	GPL-2+	Distributed
libcups2	GPL-2.0 with AOSDL exception, LGPL-2.0 with AOSDL exception, BSD-2-clause, Zlib	Distributed
libcurl3	BSD-4-Clause, ISC, public-domain, curl, other, BSD-3-Clause	Linked
libcurl3-gnutls	BSD-4-Clause, ISC, public-domain, curl, other, BSD-3-Clause	Distributed
libdatrie1	GPL-2+, LGPL-2.1+	Distributed
libdb5.3	BSD-2-clause	Distributed
libdbi1	GPL-2+, LGPL-2.1+, GFDL-1.1+	Distributed
libdbus-1-3	BSD-3-clause-generic, Expat, GPL-2+ or AFL-2.1, and Tcl-BSDish, GPL-	Distributed

	2+ or AFL-2.1, AFL-2.1, GPL-2+, g10-permissive, Tcl-BSDish, BSD-3-clause	
libdbus-glib-1-2	GPL-2+, AFL-2.1, GPL-2+ or AFL-2.1, GPL-2+ or AFL-2.1 or Expat, Expat	Distributed
libdbusmenu-glib4	LGPL-2.1, GPL-3, LGPL-2.1 LGPL-3, LGPL-3	Distributed
libdbusmenu-gtk3-4	LGPL-2.1, GPL-3, LGPL-2.1 LGPL-3, LGPL-3	Distributed
libdconf1	LGPL-2+, GPL-3, GPL-3+	Distributed
libdebconfclient0	BSD-2-clause	Distributed
libdevmapper-event1.02.1	LGPL-2.1, LGPL-2, GPL-2	Distributed
libdevmapper1.02.1	LGPL-2.1, LGPL-2, GPL-2	Distributed
libdns-export162	BSD-2-clause	Distributed
libdns162	BSD-2-clause	Distributed
libdpkg-perl	GPL-2+, public-domain-md5, BSD-2-clause, GPL-2, public-domain-s-s-d	Distributed
libdrm-amdgpu1	MIT, X11	Distributed
libdrm-common	MIT, X11	Distributed
libdrm-intel1	MIT, X11	Distributed
libdrm-nouveau2	MIT, X11	Distributed
libdrm-radeon1	MIT, X11	Distributed
libdrm2	MIT, X11	Distributed
libdumbnet1	BSD-4-clause, BSD-3-clause	Distributed
libedit2	BSD-2-clause	Distributed
libegl1-mesa	MIT	Distributed
libelf1	GPL-2	Distributed
libencode-locale-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libepoxy0	Expat	Distributed
liberror-perl	Artistic GPL	Distributed
libesmtp6	LGPL-2.1, LGPL-2	Distributed
libestr0	LGPL-2.1, LGPL-2	Distributed
libevdev2	GPL-2+, X11, GPL-2	Distributed
libexif12	GPL-2+, LGPL-2.1+, BSD-2-Clause	Distributed
libexpat1	MIT	Distributed
libexpat1-dev	MIT	Distributed
libfakeroot	GPL-3+, Artistic	Distributed
libfcgi0ldbl	FASTCGI	Distributed
libfdisk1	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
libffi6	MIT	Linked
libfile-basedir-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libfile-desktopentry-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libfile-fcntllock-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libfile-listing-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libfile-mimeinfo-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libflac8	GFDL-1.1+, LGPL-2+, ISC, GPL-2+ or LGPL-2.1+, GPL-2+, LGPL-2.1+, BSD-3-clause, Public-domain	Distributed
libfont-afm-perl	Artistic GPL	Distributed
libfontconfig1	MIT	Distributed
libfontenc1	MIT	Distributed
libfreeipmi16	GPL-3+, LGPL-3+	Distributed
libfreetype6	GPL-2+ or FTL, FTL, GZip, GPL-2+, OpenGroup-BSD-like, Catharon-OSL, BSD-3-Clause, BSD-2-Clause	Distributed

libfribidi0	LGPL-2.1+	Distributed
libftdi1	LGPL-2.1, LGPL-2	Distributed
libfuse2	GPL-2+, LGPL-2, GPL-2	Distributed
libganglia1	BSD	Distributed
libgbm1	MIT	Distributed
libgcc-5-dev	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libgcc1	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libgck-1-0	LGPL-2.1+	Distributed
libgcr-3-common	LGPL-2.1+	Distributed
libgcr-base-3-1	LGPL-2.1+	Distributed
libgcr-ui-3-1	LGPL-2.1+	Distributed
libgcr20	LGPL-2.1, GPL-2+, BSD-2-clause, GPL-2	Distributed
libgd3	GAP~configure, GAP~ Makefile.in , XFIG, GD, MIT, HPND, GPL-2+, GPL-2+ with Autoconf exception, WEBP, BSD-3-clause	Distributed
libgdbm3	GPL-2	Distributed
libgdk-pixbuf2.0-0	GPL-2+, LGPL-2, GPL-2	Distributed
libgdk-pixbuf2.0-common	GPL-2+, LGPL-2, GPL-2	Distributed
libgeopip1	ISC, LGPL-2.1+	Distributed
libgif7	MIT	Distributed
libgirepository-1.0-1	GPL-2+, , LGPL-2+	Distributed
libgl1-mesa-dri	MIT	Distributed
libgl1-mesa-glx	MIT	Distributed
libglapi-mesa	MIT	Distributed
libglib2.0-0	LGPL-2+	Distributed
libglib2.0-data	LGPL-2+	Distributed
libgmp10	GPL-2+, GPL-3, GPL-2	Linked
libgnutls-openssl27	LGPL-2.1, GPL-3, GPL-3+, BSD-2-clause	Distributed
libgnutls30	LGPL-2.1, GPL-3, GPL-3+, BSD-2-clause	Linked
libgomp1	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libgpg-error0	GPL-2.1+	Distributed
libgphoto2-6	other-2, GPL-1, public-domain-1, IJG, LGPL-2+, other-3, LGPL-1.1+, GPL-2, public-domain, GPL-2+, LGPL-2.1+, GPL-3+, LGPL-2+ or BSD-3-clause, BSD-3-Clause	Distributed
libgphoto2-l10n	other-2, GPL-1, public-domain-1, IJG, LGPL-2+, other-3, LGPL-1.1+, GPL-2, public-domain, GPL-2+, LGPL-2.1+, GPL-3+, LGPL-2+ or BSD-3-clause, BSD-3-Clause	Distributed
libgphoto2-port12	other-2, GPL-1, public-domain-1, IJG, LGPL-2+, other-3, LGPL-1.1+, GPL-2, public-domain, GPL-2+, LGPL-2.1+, GPL-3+, LGPL-2+ or BSD-3-clause, BSD-3-Clause	Distributed
libgpm2	GPL-2	Distributed
libgraphite2-3	GPL1+ Artistic, LGPL-2+, Artistic or GPL-1+, MPL-1.1 GPL-2 LGPL-2.1, LGPL other, other	Distributed
libgssapi-krb5-2	MIT, ISC, BSD-2-clause, GPL-2	Linked
libgssapi3-heimdal	BSD-2-clause	Linked
libstreamer-plugins-base1.0-0	LGPL-2+, MIT/X11 (BSD like) LGPL-2+, GPL-2+, BSD (3 clause), BSD (2 clause)	Distributed
libstreamer1.0-0	LGPL-2+, GPL-2+, LGPL-2.1+, GPL-3+	Distributed
libgtk-3-0	Expat, LGPL-2+, Apache-2.0, LGPL-2.1+, LGPL-2+ or other, other	Distributed

libgtk-3-bin	Expat, LGPL-2+, Apache-2.0, LGPL-2.1+, LGPL-2+ or other, other	Distributed
libgtk-3-common	Expat, LGPL-2+, Apache-2.0, LGPL-2.1+, LGPL-2+ or other, other	Distributed
libgtk2.0-0	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+	Distributed
libgtk2.0-bin	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+	Distributed
libgtk2.0-common	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+	Distributed
libgudev-1.0-0	LGPL-2+	Distributed
libgusb2	LGPL-2.1+, GPL-2.0+	Distributed
libgvc6	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
libgvpr2	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
libharfbuzz0b	MIT	Distributed
libhcrypto4-heimdal	BSD-2-clause	Linked
libheimbase1-heimdal	BSD-2-clause	Linked
libheimntlm0-heimdal	BSD-2-clause	Linked
libhiredis0.13	BSD-3-Clause	Distributed
libhogweed4	LGPL-2+, GAP, GPL-2, public-domain, GPL-2+, LGPL-2.1+, GPL-2+ with Autoconf exception, other	Linked
libhtml-form-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhtml-format-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhtml-parser-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhtml-tagset-perl	Artistic	Distributed
libhtml-tree-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhttp-cookies-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhttp-daemon-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhttp-date-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhttp-message-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhttp-negotiate-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libhx509-5-heimdal	BSD-2-clause	Linked
libice-dev	X11	Distributed
libice6	X11	Distributed
libicu55	Unicode	Distributed
libidn11	GPL-3+, LGPL-3+ or GPL-2+, LGPL-2.1+, GAP, GFDL-1.3+	Linked
libieee1284-3	GPL-2+	Distributed
libindicator3-7	GPL-3	Distributed
libinput-bin	GPL-2, Expat	Distributed
libinput10	GPL-2, Expat	Distributed
libio-html-perl	Artistic or GPL-1+, Artistic, GPL-1+, GPL-3+	Distributed
libio-socket-ssl-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libipc-system-simple-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libisc-export160	BSD-2-clause	Distributed
libisc160	BSD-2-clause	Distributed
libisc140	BSD-2-clause	Distributed
libiscfg140	BSD-2-clause	Distributed
libisl15	MIT, , LGPL-2.1+, BSD-2-clause	Distributed
libitm1	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libjansson4	Expat	Distributed
libjbig0	GPL-2+	Distributed
libjemalloc1	, BSD-3-Clause	Distributed
libjpeg-turbo8	, JPEG, LGPL-2.1	Distributed
libjpeg8	LGPL-2.1	Distributed
libjs-jquery	GPL-2 or MIT, MIT or BSD-3-clause or GPL-2, BSD-3-clause, GPL-2,	Distributed

	MIT	
libjs-openlayers	Apache-2.0, AGPL-3, MIT, AGPL-3 or Apache-2.0, BSD-3-Clause, BSD-2-Clause	Distributed
libjson-c2	MIT	Linked
libjson-glib-1.0-0	LGPL-2.1+	Distributed
libjson-glib-1.0-common	LGPL-2.1+	Distributed
libk5crypto3	MIT, ISC, BSD-2-clause, GPL-2	Linked
libkeyutils1	GPL-2+, LGPL-2+	Linked
libklibc	BSD-2-clause, GPL-2	Distributed
libkmod2	LGPL-2.1, LGPL-2, GPL-2	Distributed
libkrb5-26-heimdal	BSD-2-clause	Linked
libkrb5-3	MIT, ISC, BSD-2-clause, GPL-2	Linked
libkrb5support0	MIT, ISC, BSD-2-clause, GPL-2	Linked
liblcms2-2	MIT, GPL-2+	Distributed
libldap-2.4-2	BSD-4-clause, BSD-2-clause	Linked
libllvm6.0	LLVM, solar-public-domain, NCSA, Expat, Apple, U-OF-I-BSD-LIKE or MIT, public-domain, MIT, Polly, Python, U-OF-I-BSD-LIKE, BSD-3-clause, BSD-3-Clause, ARM	Distributed
liblocale-gettext-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
liblockfile-bin	GPL-2+, LGPL-2, LGPL-2+	Distributed
liblockfile1	GPL-2+, LGPL-2, LGPL-2+	Distributed
liblsan0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libltdl7	GPL-2+	Distributed
liblua5.2-0	Expat	Distributed
libluajit-5.1-2	MIT/X, PD	Distributed
libluajit-5.1-common	MIT/X, PD	Distributed
liblvm2app2.2	LGPL-2.1, LGPL-2, GPL-2	Distributed
liblvm2cmd2.02	LGPL-2.1, LGPL-2, GPL-2	Distributed
liblwp-mediatypes-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
liblwp-protocol-https-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
liblwres141	BSD-2-clause	Distributed
liblz4-1	GPL-2+, BSD-2-clause	Distributed
liblzma5	, PD, permissive-nowarranty, none, noderivs, GPL-2, PD-debian, GPL-2+, LGPL-2.1+, config-h, probably-PD, Autoconf, permissive-fsf	Distributed
libmagic1	BSD-2-Clause-regents, MIT-Old-Style-with-legal-disclaimer-2, BSD-2-Clause-alike, BSD-2-Clause-netbsd, public-domain	Distributed
libmailtools-perl	Artistic, GPL-2	Distributed
libmatheval1	GPL-3	Distributed
libmbim-glib4	GPL-2+, LGPL-2+, GFDL-NIV-1.3+	Distributed
libmbim-proxy	GPL-2+, LGPL-2+, GFDL-NIV-1.3+	Distributed
libmemcached11	Bob-Jenkins, BSD-3-clause-Sun, RSA-Data-Security, BSD-3-clause-TangentOrg, Paul-Hsieh, BSD-3-clause	Distributed
libmirclient9	GPL-3, Apache-2.0, GPL-2, BSD (3 clause), LGPL-3, BSD (2 clause)	Distributed
libmircommon7	GPL-3, Apache-2.0, GPL-2, BSD (3 clause), LGPL-3, BSD (2 clause)	Distributed
libmircore1	GPL-3, Apache-2.0, GPL-2, BSD (3 clause), LGPL-3, BSD (2 clause)	Distributed
libmirprotobuf3	GPL-3, Apache-2.0, GPL-2, BSD (3 clause), LGPL-3, BSD (2 clause)	Distributed
libmm-glib0	GPL-2.0+, GPL-2.0, LGPL-2.0+, GPL-3.0+	Distributed
libmnl0	GPL-2+	Distributed
libmodbus5	GPL-3+, LGPL-2.1+	Distributed
libmount1	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-	Distributed

	domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	
libmpc3	LGPL-2.1, LGPL-2	Distributed
libmpdec2	GPL-2+, BSD	Distributed
libmpfr4	LGPL-3+	Distributed
libmpx0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libmspack0	LGPL-2.1	Distributed
libmtdev1	The MIT License, The MIT license	Distributed
libmysqlclient20	Artistic or GPL-2, SWsoft, ISC, Artistic, BSD-2-clause, GPL-2, public-domain, GPL-2+, LGPL, BSD-3-clause and GPL-2, zlib/libpng, Boost, BSD-3-clause, BSD-like	Distributed
libncurses5	BSD-2-clause	Distributed
libncursesw5	BSD-2-clause	Distributed
libndp0	LGPL-2.1+	Distributed
libnet-dbus-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libnet-http-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libnet-smtp-ssl-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libnet-ssleay-perl	Artistic or GPL-1+, Artistic, GPL-1+, Artistic-2.0	Distributed
libnetfilter-contrack3	GPL-2+	Distributed
libnettle6	LGPL-2+, GAP, GPL-2, public-domain, GPL-2+, LGPL-2.1+, GPL-2+ with Autoconf exception, other	Linked
libnewt0.52	LGPL-2	Distributed
libnfnetlink0	GPL	Distributed
libnghttp2-14	GPL-3+ with autoconf exception, Expat, BSD-2-clause, all-permissive, MIT, SIL-OFL-1.1	Distributed
libnih-dbus1	GPL-2	Distributed
libnih1	GPL-2	Distributed
libnl-3-200	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libnl-genl-3-200	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libnl-route-3-200	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libnm0	GPL-2+, LGPL-2.1+, LGPL-2+	Distributed
libnma-common	GPL-2+, LGPL-2.1+, LGPL-2+	Distributed
libnma0	GPL-2+, LGPL-2.1+, LGPL-2+	Distributed
libnotify4	LGPL-2.1, LGPL-2	Distributed
libnspr4	MPL-2	Distributed
libnss-remoteuser	LGPL-2.1, LGPL-2, GPL-2	Distributed
libnss3	BSD-4-clause, X11, BSD-2-clause, LGPL-2.1, MIT, Zlib	Distributed
libnss3-nssdb	BSD-4-clause, X11, BSD-2-clause, LGPL-2.1, MIT, Zlib	Distributed
libnuma1	GPL-2+	Distributed
libogg0	BSD-2-clause	Distributed
libonig2	GPL-2+, BSD-2-clause	Distributed
libopenipmi0	GPL, LGPL	Distributed
liboping0	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
libopts25	LGPL-3+ or Modified_BSD, GPL-2+ or LGPL-3+ or Modified_BSD, LGPL-3+, GPL-2+, LGPL-2.1+, GPL-3+, GPL-3+., Modified_BSD	Distributed
libopus0	BSD-2-clause	Distributed
liborc-0.4-0	BSD-2-clause	Distributed
libow-3.1-1	TINL-2, Artistic or GPL-1+, GPL-2 or MIT, LGPL-2, BSD-2-Clauses, other-MIT, GPL-2, MIT, GPL-1+, Artistic, other-Apple	Distributed
libowcapi-3.1-1	TINL-2, Artistic or GPL-1+, GPL-2 or MIT, LGPL-2, BSD-2-Clauses, other-MIT, GPL-2, MIT, GPL-1+, Artistic, other-Apple	Distributed

libp11-kit-gnome-keyring	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+, GPL-2	Distributed
libp11-kit0	ISC, ISC+IBM, permissive-like-automake-output, same-as-rest-of-p11kit, BSD-3-Clause	Linked
libpam-gnome-keyring	LGPL-2.1, GPL-2+, LGPL-2, LGPL-2+, GPL-2	Distributed
libpam-modules	BSD-Style GPL	Distributed
libpam-modules-bin	BSD-Style GPL	Distributed
libpam-rest	BSN GPL	Distributed
libpam-runtime	BSD-Style GPL	Distributed
libpam-systemd	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
libpam0g	BSD-Style GPL	Linked
libpango-1.0-0	LGPL-2.1, LGPL-2	Distributed
libpangocairo-1.0-0	LGPL-2.1, LGPL-2	Distributed
libpangoft2-1.0-0	LGPL-2.1, LGPL-2	Distributed
libparted2	GPL-3+, GPL-3	Distributed
libpathplan4	GPL-2+, BSD-2-clause, Zlib, GPL-2, MIT	Distributed
libpcap0.8	BSD-3-clause	Distributed
libpci3	GPL-2+	Distributed
libpciaccess0	MIT, ISC	Distributed
libpcre16-3	BSD-2-clause	Distributed
libpcre3	BSD-2-clause	Distributed
libpcsc-lite1	GPL-3+, ISC, BSD-3-clause, Expat	Distributed
libperl5.22	HSIEH-DERIVATIVE, GPL-1+ or Artistic, and Unicode, Expat, BSD-4-clause-POWERDOG, TEXT-TABS, GPL-2+, Artistic-2, BSD-3-clause-GENERIC, Artistic, Expat or GPL-1+ or Artistic, LGPL-2.1, BZIP, ZLIB, GPL-1+ or Artistic, and BSD-3-clause-GENERIC, SDBM-PUBLIC-DOMAIN, REGCOMP, BSD-3-clause-with-weird-numbering, GPL-1+ or Artistic, GPL-1+ or Artistic, and BSD-4-clause-POWERDOG, BSD-3-clause, DONT-CHANGE-THE-GPL, S2P, HSIEH-BSD, HSIEH-DERIVATIVE or HSIEH-BSD or LGPL-2.1, GPL-3+-WITH-BISON-EXCEPTION, CC0-1.0, GPL-1+, GPL-2+ or Artistic, Unicode, REGCOMP, and GPL-1+ or Artistic	Linked
libpipeline1	GPL-2+, GPL-3+	Distributed
libpixmap-1-0	X11	Distributed
libplymouth4	GPL-2+, other	Distributed
libpng12-0	GPL-2	Distributed
libpolkit-agent-1-0	Apache-2.0, LGPL-2.0+	Distributed
libpolkit-backend-1-0	Apache-2.0, LGPL-2.0+	Distributed
libpolkit-gobject-1-0	Apache-2.0, LGPL-2.0+	Distributed
libpopt0	GPL-2+, X-Consortium	Distributed
libpq5	Custom-regex, PostgreSQL, Tcl, almost exclusively BSD, Custom-pg_dump, Custom-Unicode	Distributed
libprocps4	LGPL-2.1+, GPL-2.0+, LGPL-2.0+	Distributed
libprotobuf-c1	permissive, BSD-3-Clause, BSD-2-Clause	Distributed
libprotobuf-lite9v5	GPL-3, Apache-2.0, BSD-2-clause	Distributed
libproxy1v5	LGPL-2.1, GPL-2+, LGPL-2	Distributed
libpthread-stubs0-dev	MIT	Distributed
libpulse0	LGPL-2.1, LGPL-2, GPL-2, MIT	Distributed
libpython-all-dev	MIT	Distributed
libpython-dev	MIT	Distributed
libpython-stdlib	MIT	Distributed
libpython2.7	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed

libpython2.7-dev	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
libpython2.7-minimal	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Linked
libpython2.7-stdlib	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Linked
libpython3-stdlib	MIT	Distributed
libpython3.5	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
libpython3.5-minimal	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Linked
libpython3.5-stdlib	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Linked
libqgsttools-p1	LGPL-2.1, LGPL-2.1-or-3 with Qt-Company-1.1 exception, custom-fftwreal, BSD-3-clause, GFDL-NIV-1.3	Distributed
libqmi-glib5	GPL-2+, LGPL-2.0+, GFDL-NIV-1.3+	Distributed
libqmi-proxy	GPL-2+, LGPL-2.0+, GFDL-NIV-1.3+	Distributed
libqt5core5a	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5dbus5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5gui5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5multimedia5	LGPL-2.1, LGPL-2.1-or-3 with Qt-Company-1.1 exception, custom-fftwreal, BSD-3-clause, GFDL-NIV-1.3	Distributed
libqt5multimedia5-plugins	LGPL-2.1, LGPL-2.1-or-3 with Qt-Company-1.1 exception, custom-fftwreal, BSD-3-clause, GFDL-NIV-1.3	Distributed
libqt5multimediacore5	LGPL-2.1, LGPL-2.1-or-3 with Qt-Company-1.1 exception, custom-fftwreal, BSD-3-clause, GFDL-NIV-1.3	Distributed
libqt5network5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5opengl5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5printsupport5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libqt5svg5	LGPL-2.1-or-3 with Qt-1.1 exception, MIT-ISI and LGPL-2.1-or-3 with Qt-1.1 exception, MIT-ISI, LGPL-2.1, GFDL-NIV-1.3, BSD-3-clause	Distributed
libqt5widgets5	LGPL-2.1-or-3 with Qt-1.1 exception, Expat, wintab, GPL-2+, Bitstream-Vera, Harfbuzz, libjpeg, Apache-2.0, Adobe, brg-endian, Unifont, GPL-2+ or FTL, libpng, Bitstream, W3C, Hybrid-BSD, MIT, BSD-3-clause, GFDL-1.3, FTL, Courier, public-domain, Zlib, Unicode	Distributed
libquadmath0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
librabbitmq4	MIT, all-permissive, BSD-Kitware-Insight, BSD-Author	Distributed
librdkafka1	MIT, BSD-3-clause, BSD-2-clause	Distributed
libreadline5	GPL-2	Distributed

libreadline6	GPL-3+, GPL-3	Distributed
libregex-common-perl	Expat, GPL-1+, Artistic-2.0, Artistic or GPL-1+ or Artistic-2.0 or BSD-3-clause or Expat, Artistic, BSD-3-clause	Distributed
librest-0.7-0	LGPL-2.1, , GPL-2+	Distributed
libroken18-heimdal	BSD-2-clause	Linked
librrd4	public_domain, LGPL-2+, GPL-2+ with FLOSS exception, plbasename, FSF, BSD-2-clause, GPL-2, public-domain, MIT, GPL-2+	Distributed
librrds-perl	public_domain, LGPL-2+, GPL-2+ with FLOSS exception, plbasename, FSF, BSD-2-clause, GPL-2, public-domain, MIT, GPL-2+	Distributed
librsvg2-2	GPL-2.0+, LGPL-2.0+	Distributed
librsvg2-common	GPL-2.0+, LGPL-2.0+	Distributed
librtmp1	LGPL-2.1, GPL-2+, LGPL-2, GPL-2	Linked
libruby2.3	SIL-1.1, zlib/libpng, CC0, PublicDomain, Expat, Permissive, PreserveNotice, Artistic, Unicode, BSD-2-clause, Expat or Ruby, PartialGplArtisticAndRuby, GPL-1+ or Artistic, GPL-1+, BSD-2-clause or Ruby, GPL-3+, 3C-BSD, Ruby, BSD-3-clause, AllPermissions	Distributed
libsane	GPL-2+ with sane exception, GPL-2, GPL-2+, LGPL-2.1+, Artistic, GFDL-1.1	Distributed
libsane-common	GPL-2+ with sane exception, GPL-2, GPL-2+, LGPL-2.1+, Artistic, GFDL-1.1	Distributed
libsasl2-2	GPL-2+ or BSD-2-clause, BSD-4-clause, GPL-3+	Linked
libsasl2-modules	GPL-2+ or BSD-2-clause, BSD-4-clause, GPL-3+	Distributed
libsasl2-modules-db	GPL-2+ or BSD-2-clause, BSD-4-clause, GPL-3+	Distributed
libsbc1	LGPL-2+, GPL-2+	Distributed
libseccomp2	LGPL-2.0+	Distributed
libsecret-1-0	GPL-2+, Apache-2.0, LGPL-2.1+, BSD-3-clause	Distributed
libsecret-common	GPL-2+, Apache-2.0, LGPL-2.1+, BSD-3-clause	Distributed
libselinux1	LGPL-2.1, LGPL-2, GPL-2	Distributed
libsemanage-common	LGPL-2.1	Distributed
libsemanage1	LGPL-2.1	Distributed
libsensors4	GPL-2+, GPL-2	Distributed
libsepol1	LGPL-2.1	Distributed
libserialport0	LGPL-3.0+	Distributed
libsigrok2	GPL-2.0+, BSD-2-clause, GPL-3.0+	Distributed
libslang2	GPL-2+	Distributed
libsm-dev	X11	Distributed
libsm6	X11	Distributed
libsmartcols1	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
libsmi2ldbl	BSD-2-clause	Distributed
libsndfile1	LGPL-2.1, LGPL-2, BSD-2-clause	Distributed
libsnmp-base	BSD-2-clause	Distributed
libsnmp30	BSD-2-clause	Linked
libsodium18	ISC, BSD-2-clause, public-domain, GPL-2+, MIT, CC0	Distributed
libsoup-gnome2.4-1	LGPL-2+	Distributed
libsoup2.4-1	LGPL-2+	Distributed
libsqlite3-0	GPL-2+, public-domain	Linked
libss2	MIT	Distributed
libssh-gcrypt-4	, BSD-2-clause, LGPL-2.1, LGPL-2.1+~OpenSSL, BSD-3-clause, LGPL-2.1+~OpenSSL or BSD-2-clause or BSD-3-clause	Distributed
libssl1.0.0	BSD-2-clause	Linked

libstdc++-5-dev	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libstdc++6	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libsystemd0	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
libtasn1-6	LGPL-2.1, GPL-3, LGPL-2, GPL-3+	Linked
libtext-charwidth-perl	Artistic, GPL-2	Distributed
libtext-iconv-perl	Artistic, GPL-2	Distributed
libtext-wrapi18n-perl	Artistic	Distributed
libthai-data	GPL-2+, LGPL-2.1+	Distributed
libthai0	GPL-2+, LGPL-2.1+	Distributed
libtheora0	BSD-2-clause	Distributed
libtie-ixhash-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libtiff5	Hylafax	Distributed
libtimedate-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libtinfo5	BSD-2-clause	Distributed
libtokyocabinet9	LGPL-2.1+, BSD-3-clause, ZLib	Distributed
libtokyotyrant3	LGPL-2.1, LGPL-2	Distributed
libtsan0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libtxc-dxtn-s2tc0	Expat	Distributed
libubsan0	GPL-3, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib, Artistic, GPL-3+	Distributed
libudev1	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
libupsclient4	GPL-2+, GPL-3, GPL-3+, GPL-2	Distributed
liburi-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libusb-0.1-4	LGPL-2+, LGPL-2, BSD-2-clause	Distributed
libusb-1.0-0	LGPL-2.1, GPL-2+, LGPL-2, GPL-2	Distributed
libustr-1.0-1	GPL-2+, MIT, BSD-2-clause, LGPL-2+, LGPL-2+ or BSD-2-clause or MIT	Distributed
libuuid1	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
libvarnishapi1	BSD-2-clause, GPL-2	Distributed
libvirt0	GPL-3, GPL-2, LGPL-2.1, GPL-2+, MIT, GPL-3+	Distributed
libvisual-0.4-0	LGPL-2+, LGPL-2.1+	Distributed
libvorbis0a	BSD-2-clause	Distributed
libvorbisenc2	BSD-2-clause	Distributed
libvpx3	GPL-2+, Artistic, BSD-2-clause, GPL-2	Distributed
libwacom-bin	MIT, permissive	Distributed
libwacom-common	MIT, permissive	Distributed
libwacom2	MIT, permissive	Distributed
libwayland-client0	X11	Distributed
libwayland-cursor0	X11	Distributed
libwayland-egl1-mesa	MIT	Distributed
libwayland-server0	X11	Distributed
libwind0-heimdal	BSD-2-clause	Linked
libwireshark-data	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
libwireshark8	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
libwiredtap6	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
libwrap0	tcp_wrapper (BSD-style)	Linked
libwscodecs1	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
libwsutil7	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed

libwww-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libwww-robotrules-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libx11-6	MIT, X11, BSD-2-clause	Distributed
libx11-data	MIT, X11, BSD-2-clause	Distributed
libx11-dev	MIT, X11, BSD-2-clause	Distributed
libx11-doc	MIT, X11, BSD-2-clause	Distributed
libx11-protocol-perl	Artistic or GPL-1+, Artistic, GPL-1+, Expat	Distributed
libx11-xcb1	MIT, X11, BSD-2-clause	Distributed
libxau-dev	X11	Distributed
libxau6	X11	Distributed
libxaw7	MIT, X11	Distributed
libxcb-dri2-0	MIT	Distributed
libxcb-dri3-0	MIT	Distributed
libxcb-glx0	MIT	Distributed
libxcb-icc4	GPL-2+, MIT/X Consortium License	Distributed
libxcb-image0	GPL-2+, MIT/X11	Distributed
libxcb-keysyms1	GPL-2+, MIT/X11	Distributed
libxcb-present0	MIT	Distributed
libxcb-randr0	MIT	Distributed
libxcb-render-util0	GPL-2+, MIT/X Consortium License	Distributed
libxcb-render0	MIT	Distributed
libxcb-shape0	MIT	Distributed
libxcb-shm0	MIT	Distributed
libxcb-sync1	MIT	Distributed
libxcb-util1	GPL-2+, MIT/X Consortium License	Distributed
libxcb-xfixes0	MIT	Distributed
libxcb-xkb1	MIT	Distributed
libxcb1	MIT	Distributed
libxcb1-dev	MIT	Distributed
libxcomposite1	MIT, X11	Distributed
libxcursor1	MIT	Distributed
libxdamage1	MIT	Distributed
libxdmcp-dev	X11	Distributed
libxdmcp6	X11	Distributed
libxen-4.6	LGPL-2, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT	Distributed
libxenstore3.0	LGPL-2, BSD-2-clause, GPL-2, LGPL-2.1, GPL-2+, MIT	Distributed
libxext6	MIT, X11	Distributed
libxfixes3	MIT, X11	Distributed
libxft2	MIT	Distributed
libxi6	X11	Distributed
libxinerama1	X11	Distributed
libxkbcommon-x11-0	MIT	Distributed
libxkbcommon0	MIT	Distributed
libxml-parser-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libxml-twig-perl	Artistic, GPL-2	Distributed
libxml-xpathengine-perl	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
libxml2	MIT	Distributed
libxmlsec1	MIT	Distributed
libxmlsec1-openssl	MIT	Distributed
libxmu6	X11	Distributed

libxmuu1	X11	Distributed
libxpm4	MIT	Distributed
libxrandr2	MIT	Distributed
libxrender1	MIT	Distributed
libxshmfence1	MIT	Distributed
libxslt1.1	MIT	Distributed
libxt-dev	MIT, X11	Distributed
libxt6	MIT, X11	Distributed
libxtables11	GPL-2+, Artistic-2, custom, GPL-2	Distributed
libxtst6	MIT, X11	Distributed
libxv1	MIT	Distributed
libxxf86dga1	X11	Distributed
libxxf86vm1	X11	Distributed
libyajl2	ISC	Distributed
libyaml-0-2	permissive, Expat	Distributed
libzip4	GPL-3, BSD-3-clause, BSD-2-clause	Distributed
libzmq5	MIT, LGPL-3.0+, LGPL-2.0+	Distributed
linux-base	GPL-2	Distributed
linux-image-4.4.0-134-generic	BSD-2-clause, GPL-2	Distributed
linux-image-extra-4.4.0-134-generic	BSD-2-clause, GPL-2	Distributed
linux-image-generic	GPL-2	Distributed
linux-image-virtual	GPL-2	Distributed
linux-libc-dev	BSD-2-clause, GPL-2	Distributed
locales	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
login	BSD-2-clause, GPL-2	Distributed
logrotate	GPL-2+, GPL-2	Distributed
logstash	Apache-2.0	Distributed
lsb-base	BSD-3-clause, GPL-2	Distributed
lsb-release	BSD-3-clause, GPL-2	Distributed
lshw	GPL-2	Distributed
lsuf	GPL-2+, BSD-4-clause, Purdue, LGPL-2+, sendmail	Distributed
lvm2	LGPL-2.1, LGPL-2, GPL-2	Distributed
make	GPL-3+	Distributed
makedev	GPL	Distributed
manpages	verbatim, BSD-4-clause and verbatim, Expat, freely-redistributable, BSD-4-clause, henry-spencer-regex, GPL-2, public-domain, GPL-2+, LDPv1, GPL-2+ and verbatim, BSD-3-clause	Distributed
manpages-dev	verbatim, BSD-4-clause and verbatim, Expat, freely-redistributable, BSD-4-clause, henry-spencer-regex, GPL-2, public-domain, GPL-2+, LDPv1, GPL-2+ and verbatim, BSD-3-clause	Distributed
mawk	GPL-2	Distributed
megacli	GPL-2.0+, Proprietary	Distributed
megaclis-as-status	GPL-2	Distributed
mime-support	Bellcore, ad-hoc	Distributed
mobile-broadband-provider-info	public-domain	Distributed
modemmanager	GPL-2.0+, GPL-2.0, LGPL-2.0+, GPL-3.0+	Distributed
mount	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed

mountall	LGPL-2+, GPL-2	Distributed
multiarch-support	LGPL-2.1, LGPL-2, BSD-2-clause, GPL-2	Distributed
mysql-common	Artistic or GPL-2, SWsoft, ISC, Artistic, BSD-2-clause, GPL-2, public-domain, GPL-2+, LGPL, BSD-3-clause and GPL-2, zlib/libpng, Boost, BSD-3-clause, BSD-like	Distributed
ncurses-base	BSD-2-clause	Distributed
ncurses-bin	BSD-2-clause	Distributed
ncurses-term	BSD-2-clause	Distributed
net-tools	GPL-2+	Distributed
netbase	GPL-2	Distributed
netcat-openbsd	BSD-3-Clause	Distributed
network-manager	GPL-2+, LGPL-2.1+, LGPL-2+	Distributed
network-manager-gnome	GPL-2+, LGPL-2.1+, LGPL-2+	Distributed
network-manager-pptp	GPL-2+, LGPL-2+	Distributed
nginx	BSD-4-clause, BSD-3-clause, BSD-2-clause, Expat	Distributed
nginx-common	BSD-4-clause, BSD-3-clause, BSD-2-clause, Expat	Distributed
nginx-extras	BSD-4-clause, BSD-3-clause, BSD-2-clause, Expat	Distributed
notification-daemon	GPL-2+	Distributed
ntp	BSD-2-clause	Distributed
ntpdate	BSD-2-clause	Distributed
ntpstat	GPL-2	Distributed
open-vm-tools	GPL-2, MIT(**), LGPL-2.1, GPL-2+, MIT(*), BSD-3	Distributed
openipmi	GPL, LGPL	Distributed
openjdk-8-jdk	LGPL-2, BSD-2-clause, X11, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib	Distributed
openjdk-8-jdk-headless	LGPL-2, BSD-2-clause, X11, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib	Distributed
openjdk-8-jre	LGPL-2, BSD-2-clause, X11, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib	Distributed
openjdk-8-jre-headless	LGPL-2, BSD-2-clause, X11, GPL-2, LGPL-2.1, GPL-2+, MIT, Zlib	Distributed
openssh-client	BSD-2-clause, GPL-2	Distributed
openssh-server	BSD-2-clause, GPL-2	Distributed
openssh-sftp-server	BSD-2-clause, GPL-2	Distributed
openssl	BSD-2-clause	Distributed
openvswitch-common	LGPL-2.1, LGPL-2, GPL-2	Distributed
openvswitch-switch	LGPL-2.1, LGPL-2, GPL-2	Distributed
openvswitch-vtep	LGPL-2.1, LGPL-2, GPL-2	Distributed
os-prober	GPL-2	Distributed
owfs-common	TINL-2, Artistic or GPL-1+, GPL-2 or MIT, LGPL-2, BSD-2-Clauses, other-MIT, GPL-2, MIT, GPL-1+, Artistic, other-Apple	Distributed
p11-kit	ISC, ISC+IBM, permissive-like-automake-output, same-as-rest-of-p11kit, BSD-3-Clause	Distributed
p11-kit-modules	ISC, ISC+IBM, permissive-like-automake-output, same-as-rest-of-p11kit, BSD-3-Clause	Distributed
parted	GPL-3+, GPL-3	Distributed
passwd	BSD-2-clause, GPL-2	Distributed
patch	GPL-3+	Distributed
pciutils	GPL-2+	Distributed
perl	HSIEH-DERIVATIVE, GPL-1+ or Artistic, and Unicode, Expat, BSD-4-clause-POWERDOG, TEXT-TABS, GPL-2+, Artistic-2, BSD-3-clause-GENERIC, Artistic, Expat or GPL-1+ or Artistic, LGPL-2.1, BZIP, ZLIB, GPL-1+ or Artistic, and BSD-3-clause-GENERIC, SDBM-PUBLIC-DOMAIN, REGCOMP, BSD-3-clause-with-weird-numbering, GPL-1+ or Artistic, GPL-1+ or Artistic, and BSD-4-clause-POWERDOG, BSD-3-	Distributed

	clause, DONT-CHANGE-THE-GPL, S2P, Hsieh-BSD, Hsieh-Derivative or Hsieh-BSD or LGPL-2.1, GPL-3+-with-bison-exception, CC0-1.0, GPL-1+, GPL-2+ or Artistic, Unicode, REGCOMP, and GPL-1+ or Artistic	
perl-base	Hsieh-Derivative, GPL-1+ or Artistic, and Unicode, Expat, BSD-4-clause-POWERDOG, TEXT-TABS, GPL-2+, Artistic-2, BSD-3-clause-GENERIC, Artistic, Expat or GPL-1+ or Artistic, LGPL-2.1, BZIP, ZLIB, GPL-1+ or Artistic, and BSD-3-clause-GENERIC, SDBM-PUBLIC-DOMAIN, REGCOMP, BSD-3-clause-with-weird-numbering, GPL-1+ or Artistic, GPL-1+ or Artistic, and BSD-4-clause-POWERDOG, BSD-3-clause, DONT-CHANGE-THE-GPL, S2P, Hsieh-BSD, Hsieh-Derivative or Hsieh-BSD or LGPL-2.1, GPL-3+-with-bison-exception, CC0-1.0, GPL-1+, GPL-2+ or Artistic, Unicode, REGCOMP, and GPL-1+ or Artistic	Distributed
perl-modules-5.22	Hsieh-Derivative, GPL-1+ or Artistic, and Unicode, Expat, BSD-4-clause-POWERDOG, TEXT-TABS, GPL-2+, Artistic-2, BSD-3-clause-GENERIC, Artistic, Expat or GPL-1+ or Artistic, LGPL-2.1, BZIP, ZLIB, GPL-1+ or Artistic, and BSD-3-clause-GENERIC, SDBM-PUBLIC-DOMAIN, REGCOMP, BSD-3-clause-with-weird-numbering, GPL-1+ or Artistic, GPL-1+ or Artistic, and BSD-4-clause-POWERDOG, BSD-3-clause, DONT-CHANGE-THE-GPL, S2P, Hsieh-BSD, Hsieh-Derivative or Hsieh-BSD or LGPL-2.1, GPL-3+-with-bison-exception, CC0-1.0, GPL-1+, GPL-2+ or Artistic, Unicode, REGCOMP, and GPL-1+ or Artistic	Distributed
pinentry-gnome3	GPL-2+, LGPL-3+ or GPL-2+, LGPL-2.1+, X11, LGPL-3+	Distributed
plymouth	GPL-2+, other	Distributed
plymouth-theme-ubuntu-text	GPL-2+, other	Distributed
policykit-1	Apache-2.0, LGPL-2.0+	Distributed
policykit-1-gnome	LGPL-2	Distributed
postfix	MIT, BSD-2-clause	Distributed
ppp	GPL-2	Distributed
pptp-linux	GPL-2+	Distributed
procps	LGPL-2.1+, GPL-2.0+, LGPL-2.0+	Distributed
python	MIT	Distributed
python-all	MIT	Distributed
python-all-dev	MIT	Distributed
python-apt	GPL-2+,	Distributed
python-apt-common	GPL-2+,	Distributed
python-chardet	LGPL-2.1+	Distributed
python-crypto	BSD-3-clause, public-domain	Distributed
python-dateutil	PSF	Distributed
python-dev	MIT	Distributed
python-django	PSF, Expat, Apache-2.0, PSF-baseconv, BSD-3-Clause and Expat, BSD-3-Clause, BSD-2-Clause	Linked
python-django-common	PSF, Expat, Apache-2.0, PSF-baseconv, BSD-3-Clause and Expat, BSD-3-Clause, BSD-2-Clause	Distributed
python-ecdsa	Expat	Distributed
python-enum	GPL-2+, PSF, GPL-2+ or PSF	Distributed
python-flup	BSD-2	Distributed
python-ipaddr	Apache-2.0	Distributed
python-lockfile	Expat	Distributed

python-minimal	MIT	Distributed
python-netaddr	BSD-2-clause	Distributed
python-netifaces	MIT-style	Distributed
python-openvswitch	LGPL-2.1, LGPL-2, GPL-2	Linked
python-paramiko	LGPL-2.1, LGPL-2	Linked
python-pexpect	ISC	Distributed
python-pip	public-domain, Expat	Distributed
python-pip-whl	public-domain, Expat	Distributed
python-pkg-resources	PSF	Linked
python-ptyprocess	ISC	Distributed
python-pycurl	LGPL-2.1, MIT	Distributed
python-pygraphviz	BSD-2-clause	Distributed
python-pysqlite2	Zlib	Distributed
python-redis	MIT, GPL-3, GPL-3+	Distributed
python-setuptools	PSF	Linked
python-simplejson	MIT	Distributed
python-six	Expat	Distributed
python-software-properties	LGPL-2.1, LGPL-2, GPL-2	Distributed
python-sqlparse	BSD-2, GPL-2, BSD-3	Distributed
python-systemd	LGPL-2.1+	Linked
python-tz	Expat	Linked
python-wheel	Expat/MIT, GPL-3	Distributed
python2.7	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
python2.7-dev	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
python2.7-minimal	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
python3	MIT	Distributed
python3-apt	GPL-2+,	Distributed
python3-chardet	LGPL-2.1+	Distributed
python3-dbus	MIT	Distributed
python3-gi	LGPL-2.1+, Expat	Distributed
python3-minimal	MIT	Distributed
python3-pkg-resources	PSF	Linked
python3-pycurl	LGPL-2.1, MIT	Distributed
python3-requests	Apache, PSF-2, LGPL-2.1+, MPL-2.0, Expat	Distributed
python3-six	Expat	Distributed
python3-software-properties	LGPL-2.1, LGPL-2, GPL-2	Distributed
python3-systemd	LGPL-2.1+	Linked
python3-urllib3	PSF-2, Expat	Linked
python3.5	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
python3.5-minimal	Zlib, Apache-2.0, BSD-2-clause, GPL-2, MIT	Distributed
qttranslations5-l10n	LGPL-2.1, LGPL-2.1-or-3 with Qt-1.1 exception	Distributed
rake	Expat	Distributed
readline-common	GPL-3+, GPL-3	Distributed
redis-server	MIT, BSD-2-clause	Distributed
redis-tools	MIT, BSD-2-clause	Distributed
rename	Artistic or GPL-1+, Artistic, GPL-1+	Distributed
resolvconf	GPL-2+	Distributed
rrdtool	public_domain, LGPL-2+, GPL-2+ with FLOSS exception, plbasename, FSF, BSD-2-clause, GPL-2, public-domain, MIT, GPL-2+	Distributed
rsync	GPL-3	Distributed

rsyslog	Apache-2.0, GPL-3.0+ and Apache-2.0, GPL-3.0+, LGPL-3.0+, LGPL-3.0+ and Apache-2.0, BSD-3-clause	Distributed
ruby	Ruby	Distributed
ruby-did-you-mean	Expat	Distributed
ruby-json	Ruby or GPL-2, Ruby, GPL-2	Distributed
ruby-minitest	Expat	Distributed
ruby-net-telnet	Ruby	Distributed
ruby-power-assert	Ruby, BSD-2-clause, BSD-2-clause or Ruby	Distributed
ruby-test-unit	PSF, BSD-2-clause, LGPL-2.1, BSD-2-clause or Ruby, and PSF, BSD-2-clause or Ruby, Ruby, BSD-2-clause or Ruby or LGPL-2.1	Distributed
ruby2.3	SIL-1.1, zlib/libpng, CC0, PublicDomain, Expat, Permissive, PreserveNotice, Artistic, Unicode, BSD-2-clause, Expat or Ruby, PartialGplArtisticAndRuby, GPL-1+ or Artistic, GPL-1+, BSD-2-clause or Ruby, GPL-3+, 3C-BSD, Ruby, BSD-3-clause, AllPermissions	Distributed
rubygems-integration	Expat	Distributed
sed	GPL-2	Distributed
sensible-utils	GPL-2	Distributed
sgml-base	GPL-2	Distributed
shared-mime-info	GPL-2+	Distributed
smartmontools	GPL-2+, GPL-2	Distributed
snmpd	BSD-2-clause	Distributed
socat	GPL-2+, GPL-3, GPL-2	Distributed
software-properties-common	LGPL-2.1, LGPL-2, GPL-2	Distributed
spawn-fcgi	BSD-3-clause	Distributed
sqlite3	GPL-2+, public-domain	Distributed
ssh-import-id	GPL-3	Distributed
ssl-cert	BSD-3-clause	Distributed
sudo	ISC, BSD-2-clause	Distributed
sysstat	GPL-2+	Distributed
systemd	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
systemd-shim	GPL-2+	Distributed
systemd-sysv	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
sysv-rc	GPL-2+, GPL-2	Distributed
sysvinit-utils	GPL-2+, GPL-2	Distributed
tar	GPL-3+, GPL-3, GPL-2	Distributed
tcpd	tcp_wrapper (BSD-style)	Distributed
tcpdump	BSD-4-clause, BSD-3-clause	Distributed
telegraf	MIT	Distributed
thermald	GPL-2+, GPL-2	Distributed
traceroute	GPL-2+, LGPL-2.1+	Distributed
tshark	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
tzdata	PD	Distributed
ubuntu-keyring	GPL-2	Distributed
ubuntu-minimal	GPL-2	Distributed
ubuntu-mono	GPL-3, CC-BY-SA-3.0	Distributed
ucf	GPL-2	Distributed
udev	Expat, GPL-2, public-domain, GPL-2+, LGPL-2.1+, CC0	Distributed
uml-utilities	GPL	Distributed
unattended-upgrades	GPL-2+	Distributed
unzip	ZIP	Distributed
upstart	GPL-2	Distributed

ureadahead	GPL-2	Distributed
usb-modeswitch	GPL-2+, GPL-2	Distributed
usb-modeswitch-data	GPL-2+, GPL-2	Distributed
usbutils	GPL-2+, GPL-2	Distributed
util-linux	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
uuid-runtime	LGPL-2+, BSD-4-clause, LGPL-3+, BSD-2-clause, GPL-2, public-domain, GPL-2+, MIT, LGPL-2.1+, LGPL, GPL-3+, BSD-3-clause	Distributed
uwsgi	GPL-2+, GPL-2	Distributed
uwsgi-core	GPL-2+, GPL-2	Distributed
uwsgi-plugin-python	GPL-2+, GPL-2	Distributed
vim	GPL-2	Distributed
vim-common	GPL-2	Distributed
vim-runtime	GPL-2	Distributed
vim-tiny	GPL-2	Distributed
virt-what	GPL-2	Distributed
wget	GPL-3	Distributed
whiptail	LGPL-2	Distributed
wireless-regdb	ISC	Distributed
wireshark	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
wireshark-common	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
wireshark-qt	LGPL-2+, Zlib, BSD-2-clause, GPL-2, GPL-2+, GPL-3+	Distributed
wpa_supplicant	ISC, BSD-3-clause, public-domain, GPL-2, BSD-3-clause or GPL-2	Distributed
x11-common	MIT, GPL-2	Distributed
x11-utils	MIT, X11	Distributed
x11-xserver-utils	MIT, X11	Distributed
x11proto-core-dev	X11	Distributed
x11proto-input-dev	X11	Distributed
x11proto-kb-dev	X11	Distributed
xauth	X11	Distributed
xdg-user-dirs	GPL-2+, MIT	Distributed
xdg-utils	MIT	Distributed
xkb-data	MIT, X11	Distributed

