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Zinrai Deep Learning System
200E (A100 Model)
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- **MXNet 1.8.0.rc0**

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4. MSCOCO Toolbox - For details, see, example/ssd/dataset/pycocotools/coco.py
Code written by Piotr Dollar and Tsung-Yi Lin, 2014.
5. PyBind11 FindEigen3.cmake - For details, see 3rdparty/onnx-tensorrt/third_party/onnx/third_party/pybind11/tools/FindEigen3.cmake
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9. Semaphore implementation in `blockingconcurrentqueue.h`
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13. FindJeMalloc.cmake
For details, see cmake/Modules/FindJeMalloc.cmake

This file is based on <https://github.com/STELLAR-GROUP/hpx/blob/master/cmake/FindJemalloc.cmake>

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14. FindPythonLibsNew.cmake

For details, see 3rdparty/onnx-tensorrt/third_party/onnx/third_party/pybind11/
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15. erfinv-inl.h

For details, see /src/operator/contrib/erfinv-inl.h

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 */
```

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16. mersenne.h

For details, see /3rdparty/nvidia_cub/test/mersenne.h

```
/*
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)
*/

=====

17. FindEigen3.cmake

For details, see /3rdparty/onnx-tensorrt/third_party/onnx/third_party/pybind11/tools/FindEigen3.cmake

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18. protoc-gen-mypy.py

For details, see /3rdparty/onnx-tensorrt/third_party/onnx/tools/protoc-gen-mypy.py

```
# Taken from https://github.com/dropbox/mypy-protobuf/blob/
d984389124eae6dbbb517f766b9266bb32171510/python/protoc-gen-mypy
# (Apache 2.0 License)
# with own fixes to
# - appease flake8
# - exit without error when protobuf isn't installed
# - fix recognition of whether an identifier is defined locally
# (unfortunately, we use a python package name ONNX_NAMESPACE_FOO_BAR_FOR_CI
# on CI, which by the original protoc-gen-mypy script was recognized to be
# camel case and therefore handled as an entry in the local package)
```

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19. rang

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The download URL is as follows:

- Ubuntu
<https://www.ubuntu.com/download>

Ubuntu is a collection of OSS of various licenses. You use the following OSS.

List of all OSS included in Ubuntu

OSS Name	Version
accountsservice	0.6.45-1ubuntu1.3
acl	2.2.52-3build1
acpid	1:2.0.28-1ubuntu1
adduser	3.116ubuntu1
amd64-microcode	3.20191021.1+really3.20181128.1~ubuntu0.18.04.1
apparmor	2.12-4ubuntu5.1
appport	2.20.9-0ubuntu7.18
appport-symptoms	0.2
apt	1.6.12ubuntu0.1
apt-utils	1.6.12ubuntu0.1
at	3.1.20-3.1ubuntu2
aufs-tools	1:4.9+20170918-1ubuntu1
base-files	10.1ubuntu2.9
base-passwd	3.5.44
bash	4.4.18-2ubuntu1.2
bash-completion	1:2.8-1ubuntu1

OSS Name	Version
bc	1.07.1-2
bcache-tools	1.0.8-2ubuntu0.18.04.1
bind9-host	1:9.11.3+dfsg-1ubuntu1.13
binutils	2.30-21ubuntu1~18.04.4
binutils-common	2.30-21ubuntu1~18.04.4
binutils-x86-64-linux-gnu	2.30-21ubuntu1~18.04.4
bridge-utils	1.5-15ubuntu1
bsdmainutils	11.1.2ubuntu1
bsdutils	1:2.31.1-0.4ubuntu3.7
btrfs-progs	4.15.1-1build1
btrfs-tools	4.15.1-1build1
build-essential	12.4ubuntu1
busybox-initramfs	1:1.27.2-2ubuntu3.3
busybox-static	1:1.27.2-2ubuntu3.3
byobu	5.125-0ubuntu1
bzip2	1.0.6-8.1ubuntu0.2
ca-certificates	20201027ubuntu0.18.04.1
cachefilesd	0.10.10-0.1ubuntu0.18.04.1
cgroupfs-mount	1.4
cloud-guest-utils	0.30-0ubuntu5
cloud-init	20.3-2-g371b392c-0ubuntu1~18.04.1
cloud-initramfs-copymods	0.40ubuntu1.1
cloud-initramfs-dyn-netconf	0.40ubuntu1.1
command-not-found	18.04.5
command-not-found-data	18.04.5
console-setup	1.178ubuntu2.9
console-setup-linux	1.178ubuntu2.9
containerd.io	1.3.7-1
coreutils	8.28-1ubuntu1
cpio	2.12+dfsg-6ubuntu0.18.04.1
cpp	4:7.4.0-1ubuntu2.3
cpp-7	7.5.0-3ubuntu1~18.04
crash	7.2.8-1ubuntu0.18.04.1
crda	3.18-1build1
cron	3.0pl1-128.1ubuntu1
cryptsetup	2:2.0.2-1ubuntu1.2
cryptsetup-bin	2:2.0.2-1ubuntu1.2

OSS Name	Version
curl	7.58.0-2ubuntu3.10
dash	0.5.8-2.10
dbus	1.12.2-1ubuntu1.2
debconf	1.5.66ubuntu1
debconf-i18n	1.5.66ubuntu1
debianutils	4.8.4
diffutils	1:3.6-1
dirmngr	2.2.4-1ubuntu1.3
distro-info-data	0.37ubuntu0.9
dmeventd	2:1.02.145-4.1ubuntu3.18.04.3
dmidecode	3.1-1ubuntu0.1
dmsetup	2:1.02.145-4.1ubuntu3.18.04.3
dns-root-data	2018013001
dnsmasq-base	2.79-1
dnsutils	1:9.11.3+dfsg-1ubuntu1.13
docker-ce	5:19.03.13~3-0~ubuntu-bionic
docker-ce-cli	5:19.03.13~3-0~ubuntu-bionic
dosfstools	4.1-1
dpkg	1.19.0.5ubuntu2.3
dpkg-dev	1.19.0.5ubuntu2.3
dump	0.4b46-3
e2fsprogs	1.44.1-1ubuntu1.3
eatmydata	105-6
ebtables	2.0.10.4-3.5ubuntu2.18.04.3
ed	1.10-2.1
efibootmgr	15-Jan
eject	2.1.5+deb1+cvs20081104-13.2
ethtool	1:4.15-0ubuntu1
fakeroot	1.22-2ubuntu1
fdisk	2.31.1-0.4ubuntu3.7
file	1:5.32-2ubuntu0.4
findutils	4.6.0+git+20170828-2
fontconfig-config	2.12.6-0ubuntu2
fonts-dejavu-core	2.37-1
fonts-ubuntu-console	0.83-2
freeipmi	1.4.11-1.1ubuntu4.1
freeipmi-bmc-watchdog	1.4.11-1.1ubuntu4.1

OSS Name	Version
freeipmi-common	1.4.11-1.1ubuntu4.1
freeipmi-ipmidetect	1.4.11-1.1ubuntu4.1
freeipmi-tools	1.4.11-1.1ubuntu4.1
friendly-recovery	0.2.38ubuntu1.1
ftp	0.17-34
fuse	2.9.7-1ubuntu1
g++	4:7.4.0-1ubuntu2.3
g++-7	7.5.0-3ubuntu1~18.04
gawk	1:4.1.4+dfsg-1build1
gcc	4:7.4.0-1ubuntu2.3
gcc-7	7.5.0-3ubuntu1~18.04
gcc-7-base	7.5.0-3ubuntu1~18.04
gcc-8-base	8.4.0-1ubuntu1~18.04
gdisk	1.0.3-1
geoip-database	20180315-1
gettext-base	0.19.8.1-6ubuntu0.3
gir1.2-glib-2.0	1.56.1-1
git	1:2.17.1-1ubuntu0.7
git-man	1:2.17.1-1ubuntu0.7
gnupg	2.2.4-1ubuntu1.3
gnupg-l10n	2.2.4-1ubuntu1.3
gnupg-utils	2.2.4-1ubuntu1.3
gpg	2.2.4-1ubuntu1.3
gpg-agent	2.2.4-1ubuntu1.3
gpg-wks-client	2.2.4-1ubuntu1.3
gpg-wks-server	2.2.4-1ubuntu1.3
gpgconf	2.2.4-1ubuntu1.3
gpgsm	2.2.4-1ubuntu1.3
gpgv	2.2.4-1ubuntu1.3
grafana	7.0.3
grep	3.1-2build1
groff-base	1.22.3-10
grub-common	2.02-2ubuntu8.18
grub-efi-amd64	2.02-2ubuntu8.18
grub-efi-amd64-bin	2.02-2ubuntu8.18
grub-efi-amd64-signed	1.93.20+2.02-2ubuntu8.18
grub-legacy-ec2	1:01

OSS Name	Version
grub2-common	2.02-2ubuntu8.18
gzip	1.6-5ubuntu1
hdparm	9.54+ds-1
hostname	3.2
htop	2.1.0-3
info	6.5.0.dfsg.1-2
init	1.51
init-system-helpers	1.51
initramfs-tools	0.130ubuntu3.11
initramfs-tools-bin	0.130ubuntu3.11
initramfs-tools-core	0.130ubuntu3.11
install-info	6.5.0.dfsg.1-2
intel-microcode	3.20200609.0ubuntu0.18.04.1
iproute2	4.15.0-2ubuntu1.2
iptables	1.6.1-2ubuntu2
iptables-persistent	1.0.4+nmu2ubuntu1
iputils-ping	3:20161105-1ubuntu3
iputils-tracepath	3:20161105-1ubuntu3
irqbalance	1.3.0-0.1ubuntu0.18.04.1
isc-dhcp-client	4.3.5-3ubuntu7.1
isc-dhcp-common	4.3.5-3ubuntu7.1
iso-codes	3.79-1
iucode-tool	2.3.1-1
iw	4.14-0.1
kbd	2.0.4-2ubuntu1
kdump-tools	1:1.6.5-1ubuntu1~18.04.5
kexec-tools	1:2.0.16-1ubuntu1.1
keyboard-configuration	1.178ubuntu2.9
keyutils	1.5.9-9.2ubuntu2
klibc-utils	2.0.4-9ubuntu2
kmod	24-1ubuntu3.5
krb5-locales	1.16-2ubuntu0.1
landscape-common	18.01-0ubuntu3.5
language-selector-common	0.188.3
ledmon	0.90-0ubuntu1~18.04.1
less	487-0.1
libaccountsservice0	0.6.45-1ubuntu1.3

OSS Name	Version
libacl1	2.2.52-3build1
libalgorithm-diff-perl	1.19.03-1
libalgorithm-diff-xs-perl	0.04-5
libalgorithm-merge-perl	0.08-3
libapparmor1	2.12-4ubuntu5.1
libapt-inst2.0	1.6.12ubuntu0.1
libapt-pkg5.0	1.6.12ubuntu0.1
libargon2-0	0~20161029-1.1
libasan4	7.5.0-3ubuntu1~18.04
libasn1-8-heimdal	7.5.0+dfsg-1
libassuan0	2.5.1-2
libatm1	1:2.5.1-2build1
libatomic1	8.4.0-1ubuntu1~18.04
libattr1	1:2.4.47-2build1
libaudit-common	1:2.8.2-1ubuntu1
libaudit1	1:2.8.2-1ubuntu1
libbind9-160	1:9.11.3+dfsg-1ubuntu1.13
libbinutils	2.30-21ubuntu1~18.04.4
libblkid1	2.31.1-0.4ubuntu3.7
libbsd0	0.8.7-1ubuntu0.1
libbz2-1.0	1.0.6-8.1ubuntu0.2
libc-bin	2.27-3ubuntu1.3
libc-dev-bin	2.27-3ubuntu1.3
libc6	2.27-3ubuntu1.3
libc6-dev	2.27-3ubuntu1.3
libcap-ng0	0.7.7-3.1
libcap2	1:2.25-1.2
libcap2-bin	1:2.25-1.2
libcc1-0	8.4.0-1ubuntu1~18.04
libcilkrts5	7.5.0-3ubuntu1~18.04
libcom-err2	1.44.1-1ubuntu1.3
libcryptsetup12	2:2.0.2-1ubuntu1.2
libcurl3-gnutls	7.58.0-2ubuntu3.10
libcurl4	7.58.0-2ubuntu3.10
libdb5.3	5.3.28-13.1ubuntu1.1
libdbus-1-3	1.12.2-1ubuntu1.2
libdbus-glib-1-2	0.110-2

OSS Name	Version
libdebconfclient0	0.213ubuntu1
libdevmapper-event1.02.1	2:1.02.145-4.1ubuntu3.18.04.3
libdevmapper1.02.1	2:1.02.145-4.1ubuntu3.18.04.3
libdns-export1100	1:9.11.3+dfsg-1ubuntu1.13
libdns1100	1:9.11.3+dfsg-1ubuntu1.13
libdpkg-perl	1.19.0.5ubuntu2.3
libdrm-common	2.4.101-2~18.04.1
libdrm2	2.4.101-2~18.04.1
libdumbnet1	1.12-7build1
libdw1	0.170-0.4ubuntu0.1
libeatmydata1	105-6
libedit2	3.1-20170329-1
libefiboot1	Jan-34
libefivar1	Jan-34
libelf1	0.170-0.4ubuntu0.1
liberror-perl	0.17025-1
libestr0	0.1.10-2.1
libevent-2.1-6	2.1.8-stable-4build1
libexpat1	2.2.5-3ubuntu0.2
libext2fs2	1.44.1-1ubuntu1.3
libfakeroot	1.22-2ubuntu1
libfastjson4	0.99.8-2
libfdisk1	2.31.1-0.4ubuntu3.7
libffi6	3.2.1-8
libfile-fcntllock-perl	0.22-3build2
libfontconfig1	2.12.6-0ubuntu2
libfreeipmi16	1.4.11-1.1ubuntu4.1
libfreetype6	2.8.1-2ubuntu2.1
libfribidi0	0.19.7-2
libfuse2	2.9.7-1ubuntu1
libgcc-7-dev	7.5.0-3ubuntu1~18.04
libgcc1	1:8.4.0-1ubuntu1~18.04
libgcrypt20	1.8.1-4ubuntu1.2
libgdbm-compat4	1.14.1-6
libgdbm5	1.14.1-6
libgeoip1	1.6.12-1
libgirepository-1.0-1	1.56.1-1

OSS Name	Version
libglib2.0-0	2.56.4-0ubuntu0.18.04.6
libglib2.0-data	2.56.4-0ubuntu0.18.04.6
libgmp10	2:6.1.2+dfsg-2
libgnutls30	3.5.18-1ubuntu1.4
libgomp1	8.4.0-1ubuntu1~18.04
libgpg-error0	1.27-6
libgpm2	1.20.7-5
libgssapi-krb5-2	1.16-2ubuntu0.1
libgssapi3-heimdal	7.5.0+dfsg-1
libhcrypto4-heimdal	7.5.0+dfsg-1
libheimbase1-heimdal	7.5.0+dfsg-1
libheimntlm0-heimdal	7.5.0+dfsg-1
libhogweed4	3.4-1
libhx509-5-heimdal	7.5.0+dfsg-1
libicu60	60.2-3ubuntu3.1
libidn11	1.33-2.1ubuntu1.2
libidn2-0	2.0.4-1.1ubuntu0.2
libip4tc0	1.6.1-2ubuntu2
libip6tc0	1.6.1-2ubuntu2
libipmiconsole2	1.4.11-1.1ubuntu4.1
libipmidetect0	1.4.11-1.1ubuntu4.1
libiptc0	1.6.1-2ubuntu2
libirs160	1:9.11.3+dfsg-1ubuntu1.13
libisc-export169	1:9.11.3+dfsg-1ubuntu1.13
libisc169	1:9.11.3+dfsg-1ubuntu1.13
libisccc160	1:9.11.3+dfsg-1ubuntu1.13
libiscfg160	1:9.11.3+dfsg-1ubuntu1.13
libisl19	0.19-1
libisns0	0.97-2build1
libitm1	8.4.0-1ubuntu1~18.04
libjson-c3	0.12.1-1.3ubuntu0.3
libk5crypto3	1.16-2ubuntu0.1
libkeyutils1	1.5.9-9.2ubuntu2
libklibc	2.0.4-9ubuntu2
libkmod2	24-1ubuntu3.5
libkrb5-26-heimdal	7.5.0+dfsg-1
libkrb5-3	1.16-2ubuntu0.1

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libkrb5support0	1.16-2ubuntu0.1
libksba8	1.3.5-2
libldap-2.4-2	2.4.45+dfsg-1ubuntu1.6
libldap-common	2.4.45+dfsg-1ubuntu1.6
liblocale-gettext-perl	1.07-3build2
liblsan0	8.4.0-1ubuntu1~18.04
libltdl7	2.4.6-2
liblvm2app2.2	2.02.176-4.1ubuntu3.18.04.3
liblvm2cmd2.02	2.02.176-4.1ubuntu3.18.04.3
liblwres160	1:9.11.3+dfsg-1ubuntu1.13
liblxc-common	3.0.3-0ubuntu1~18.04.1
liblxc1	3.0.3-0ubuntu1~18.04.1
liblz4-1	0.0~r131-2ubuntu3
liblzma5	5.2.2-1.3
liblzo2-2	2.08-1.2
libmagic-mgc	1:5.32-2ubuntu0.4
libmagic1	1:5.32-2ubuntu0.4
libmnl0	1.0.4-2
libmount1	2.31.1-0.4ubuntu3.7
libmpc3	1.1.0-1
libmpdec2	2.4.2-1ubuntu1
libmpfr6	4.0.1-1
libmpx2	8.4.0-1ubuntu1~18.04
libmspack0	0.6-3ubuntu0.3
libncurses5	6.1-1ubuntu1.18.04
libncursesw5	6.1-1ubuntu1.18.04
libnetfilter-contrack3	1.0.6-2
libnetplan0	0.99-0ubuntu3~18.04.3
libnettle6	3.4-1
libnewt0.52	0.52.20-1ubuntu1
libnfnetlink0	1.0.1-3
libnfsidmap2	0.25-5.1
libnghttp2-14	1.30.0-1ubuntu1
libnih1	1.0.3-6ubuntu2
libnl-3-200	3.2.29-0ubuntu3
libnl-genl-3-200	3.2.29-0ubuntu3
libnph0	1.5-3

OSS Name	Version
libnss-systemd	237-3ubuntu10.43
libntfs-3g88	1:2017.3.23-2ubuntu0.18.04.2
libnuma1	2.0.11-2.1ubuntu0.1
libnvidia-container-tools	1.3.0-1
libnvidia-container1	1.3.0-1
libopenipmi0	2.0.22-1.1ubuntu2.1
libp11-kit0	0.23.9-2
libpam-cap	1:2.25-1.2
libpam-modules	1.1.8-3.6ubuntu2.18.04.2
libpam-modules-bin	1.1.8-3.6ubuntu2.18.04.2
libpam-runtime	1.1.8-3.6ubuntu2.18.04.2
libpam-systemd	237-3ubuntu10.43
libpam0g	1.1.8-3.6ubuntu2.18.04.2
libparted2	3.2-20ubuntu0.2
libpcap0.8	1.8.1-6ubuntu1.18.04.2
libpci-dev	1:3.5.2-1ubuntu1.1
libpci3	1:3.5.2-1ubuntu1.1
libpcre3	2:8.39-9
libperl5.26	5.26.1-6ubuntu0.5
libpipeline1	1.5.0-1
libplymouth4	0.9.3-1ubuntu7.18.04.2
libpng16-16	1.6.34-1ubuntu0.18.04.2
libpolkit-agent-1-0	0.105-20ubuntu0.18.04.5
libpolkit-backend-1-0	0.105-20ubuntu0.18.04.5
libpolkit-gobject-1-0	0.105-20ubuntu0.18.04.5
libpopt0	1.16-11
libprocps6	2:3.3.12-3ubuntu1.2
libpsl5	0.19.1-5build1
libpython3-stdlib	3.6.7-1~18.04
libpython3.6	3.6.9-1~18.04ubuntu1.3
libpython3.6-minimal	3.6.9-1~18.04ubuntu1.3
libpython3.6-stdlib	3.6.9-1~18.04ubuntu1.3
libquadmath0	8.4.0-1ubuntu1~18.04
libreadline5	5.2+dfsg-3build1
libreadline7	7.0-3
libroken18-heimdal	7.5.0+dfsg-1
librtmp1	2.4+20151223.gitfa8646d.1-1

OSS Name	Version
libsasldb2	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libsasldb-modules	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libsasldb-modules-db	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libseccomp2	2.4.3-1ubuntu3.18.04.3
libselinux1	2.7-2build2
libsemanage-common	2.7-2build2
libsemanage1	2.7-2build2
libsensors4	1:3.4.0-4
libsensors4-dev	1:3.4.0-4
libsepol1	2.7-1
libsgutils2-2	1.42-2ubuntu1.18.04.2
libsigsegv2	2.12-1
libslang2	2.3.1a-3ubuntu1
libsmartcols1	2.31.1-0.4ubuntu3.7
libsnappy1v5	1.1.7-1
libsnmp-base	5.7.3+dfsg-1.8ubuntu3.6
libsnmp-dev	5.7.3+dfsg-1.8ubuntu3.6
libsnmp30	5.7.3+dfsg-1.8ubuntu3.6
libsqlite3-0	3.22.0-1ubuntu0.4
libss2	1.44.1-1ubuntu1.3
libssl-dev	1.1.1-1ubuntu2.1~18.04.6
libssl1.0.0	1.0.2n-1ubuntu5.4
libssl1.1	1.1.1-1ubuntu2.1~18.04.6
libstdc++-7-dev	7.5.0-3ubuntu1~18.04
libstdc++6	8.4.0-1ubuntu1~18.04
libsystemd0	237-3ubuntu10.43
libtasn1-6	4.13-2
libtext-charwidth-perl	0.04-7.1
libtext-iconv-perl	1.7-5build6
libtext-wrapi18n-perl	0.06-7.1
libtinfo5	6.1-1ubuntu1.18.04
libtirpc1	0.2.5-1.2ubuntu0.1
libtsan0	8.4.0-1ubuntu1~18.04
libubsan0	7.5.0-3ubuntu1~18.04
libudev-dev	237-3ubuntu10.43
libudev1	237-3ubuntu10.43
libunistring2	0.9.9-0ubuntu2

OSS Name	Version
libunwind8	1.2.1-8
libusb-1.0-0	2:1.0.21-2
libutempter0	1.1.6-3
libuuid1	2.31.1-0.4ubuntu3.7
libuv1	1.18.0-3
libwind0-heimdal	7.5.0+dfsg-1
libwrap0	7.6.q-27
libwrap0-dev	7.6.q-27
libx11-6	2:1.6.4-3ubuntu0.3
libx11-data	2:1.6.4-3ubuntu0.3
libxau6	1:1.0.8-1ubuntu1
libxcb1	1.13-2~ubuntu18.04
libxdmcp6	1:1.1.2-3
libxext6	2:1.3.3-1
libxml2	2.9.4+dfsg1-6.1ubuntu1.3
libxmlsec1	1.2.25-1build1
libxmlsec1-openssl	1.2.25-1build1
libxmu1	2:1.1.2-2
libxslt1.1	1.1.29-5ubuntu0.2
libxtables12	1.6.1-2ubuntu2
libyaml-0-2	0.1.7-2ubuntu3
libzstd1	1.3.3+dfsg-2ubuntu1.1
linux-base	4.5ubuntu1.2
linux-crashdump	4.15.0.122.109
linux-firmware	1.173.19
linux-generic	4.15.0.122.109
linux-headers-4.15.0-112	4.15.0-112.113
linux-headers-4.15.0-112-generic	4.15.0-112.113
linux-headers-4.15.0-122	4.15.0-122.124
linux-headers-4.15.0-122-generic	4.15.0-122.124
linux-headers-5.4.0-52-generic	5.4.0-52.57~18.04.1
linux-headers-5.4.0-52-lowlatency	5.4.0-52.57~18.04.1
linux-headers-generic	4.15.0.122.109
linux-hwe-5.4-headers-5.4.0-52	5.4.0-52.57~18.04.1
linux-hwe-5.4-tools-5.4.0-52	5.4.0-52.57~18.04.1
linux-hwe-5.4-tools-common	5.4.0-52.57~18.04.1
linux-image-4.15.0-112-generic	4.15.0-112.113

OSS Name	Version
linux-image-4.15.0-122-generic	4.15.0-122.124
linux-image-5.4.0-52-generic	5.4.0-52.57~18.04.1
linux-image-generic	4.15.0.122.109
linux-libc-dev	4.15.0-122.124
linux-modules-4.15.0-112-generic	4.15.0-112.113
linux-modules-4.15.0-122-generic	4.15.0-122.124
linux-modules-5.4.0-52-generic	5.4.0-52.57~18.04.1
linux-modules-extra-4.15.0-112-generic	4.15.0-112.113
linux-modules-extra-4.15.0-122-generic	4.15.0-122.124
linux-modules-extra-5.4.0-52-generic	5.4.0-52.57~18.04.1
linux-tools-4.15.0-122	4.15.0-122.124
linux-tools-4.15.0-122-generic	4.15.0-122.124
linux-tools-5.4.0-52-generic	5.4.0-52.57~18.04.1
linux-tools-5.4.0-52-lowlatency	5.4.0-52.57~18.04.1
linux-tools-common	4.15.0-122.124
linux-tools-generic	4.15.0.122.109
locales	2.27-3ubuntu1.3
login	1:4.5-1ubuntu2
logrotate	3.11.0-0.1ubuntu1
lsb-base	9.20170808ubuntu1
lsb-release	9.20170808ubuntu1
lshw	02.18-0.1ubuntu6.18.04.1
lsuf	4.89+dfsg-0.1
ltrace	0.7.3-6ubuntu1
lvm2	2.02.176-4.1ubuntu3.18.04.3
lxcfs	3.0.3-0ubuntu1~18.04.2
lxd	3.0.3-0ubuntu1~18.04.1
lxd-client	3.0.3-0ubuntu1~18.04.1
m4	1.4.18-1
make	4.1-9.1ubuntu1
makedumpfile	1:1.6.5-1ubuntu1~18.04.5
man-db	2.8.3-2ubuntu0.1
manpages	4.15-1
manpages-dev	4.15-1
mawk	1.3.3-17ubuntu3
mdadm	4.1~rc1-3~ubuntu18.04.4
mime-support	3.60ubuntu1

OSS Name	Version
mlocate	0.26-2ubuntu3.1
mokutil	0.3.0+1538710437.fb6250f-0ubuntu2~18.04.1
mount	2.31.1-0.4ubuntu3.7
mtr-tiny	0.92-1
multiarch-support	2.27-3ubuntu1.3
nano	2.9.3-2
ncurses-base	6.1-1ubuntu1.18.04
ncurses-bin	6.1-1ubuntu1.18.04
ncurses-term	6.1-1ubuntu1.18.04
net-tools	1.60+git20161116.90da8a0-1ubuntu1
netbase	5.4
netcat-openbsd	1.187-1ubuntu0.1
netfilter-persistent	1.0.4+nmu2ubuntu1
netplan.io	0.99-0ubuntu3~18.04.3
networkd-dispatcher	1.7-0ubuntu3.3
nfs-common	1:1.3.4-2.1ubuntu5.3
nplan	0.99-0ubuntu3~18.04.3
ntfs-3g	1:2017.3.23-2ubuntu0.18.04.2
nvidia-container-toolkit	1.3.0-1
open-iscsi	2.0.874-5ubuntu2.10
open-vm-tools	2:11.0.5-4ubuntu0.18.04.1
openipmi	2.0.22-1.1ubuntu2.1
openssh-client	1:7.6p1-4ubuntu0.3
openssh-server	1:7.6p1-4ubuntu0.3
openssh-sftp-server	1:7.6p1-4ubuntu0.3
openssl	1.1.1-1ubuntu2.1~18.04.6
os-prober	1.74ubuntu1
overlayroot	0.40ubuntu1.1
parted	3.2-20ubuntu0.2
passwd	1:4.5-1ubuntu2
pastebinit	1.5-2
patch	2.7.6-2ubuntu1.1
pciutils	1:3.5.2-1ubuntu1.1
perl	5.26.1-6ubuntu0.5
perl-base	5.26.1-6ubuntu0.5
perl-modules-5.26	5.26.1-6ubuntu0.5
pigz	2.4-1

OSS Name	Version
pinentry-curses	1.1.0-1
plymouth	0.9.3-1ubuntu7.18.04.2
plymouth-theme-ubuntu-text	0.9.3-1ubuntu7.18.04.2
policykit-1	0.105-20ubuntu0.18.04.5
pollinate	4.33-0ubuntu1~18.04.1
popularity-contest	1.66ubuntu1
powermgmt-base	1.33
procps	2:3.3.12-3ubuntu1.2
psmisc	23.1-1ubuntu0.1
publicsuffix	20180223.1310-1
python-apt-common	1.6.5ubuntu0.3
python3	3.6.7-1~18.04
python3-appport	2.20.9-0ubuntu7.18
python3-apt	1.6.5ubuntu0.3
python3-asn1crypto	0.24.0-1
python3-attr	17.4.0-2
python3-automat	0.6.0-1
python3-blinker	1.4+dfsg1-0.1
python3-certifi	2018.1.18-2
python3-cffi-backend	1.11.5-1
python3-chardet	3.0.4-1
python3-click	6.7-3
python3-colorama	0.3.7-1
python3-commandnotfound	18.04.5
python3-configobj	5.0.6-2
python3-constantly	15.1.0-1
python3-cryptography	2.1.4-1ubuntu1.4
python3-dbus	1.2.6-1
python3-debconf	1.5.66ubuntu1
python3-debian	0.1.32
python3-distro-info	0.18ubuntu0.18.04.1
python3-distupgrade	1:18.04.40
python3-gdbm	3.6.9-1~18.04
python3-gi	3.26.1-2ubuntu1
python3-httplib2	0.9.2+dfsg-1ubuntu0.2
python3-hyperlink	17.3.1-2
python3-idna	2.6-1

OSS Name	Version
python3-incremental	16.10.1-3
python3-jinja2	2.10-1ubuntu0.18.04.1
python3-json-pointer	1.10-1
python3-jsonpatch	1.19+really1.16-1fakesync1
python3-jsonschema	2.6.0-2
python3-jwt	1.5.3+ds1-1
python3-markupsafe	1.0-1build1
python3-minimal	3.6.7-1~18.04
python3-netifaces	0.10.4-0.1build4
python3-newt	0.52.20-1ubuntu1
python3-oauthlib	2.0.6-1
python3-openssl	17.5.0-1ubuntu1
python3-pam	0.4.2-13.2ubuntu4
python3-pkg-resources	39.0.1-2
python3-problem-report	2.20.9-0ubuntu7.18
python3-pyasn1	0.4.2-3
python3-pyasn1-modules	0.2.1-0.2
python3-requests	2.18.4-2ubuntu0.1
python3-requests-unixsocket	0.1.5-3
python3-serial	3.4-2
python3-service-identity	16.0.0-2
python3-six	1.11.0-2
python3-software-properties	0.96.24.32.14
python3-systemd	234-1build1
python3-twisted	17.9.0-2ubuntu0.1
python3-twisted-bin	17.9.0-2ubuntu0.1
python3-update-manager	1:18.04.11.13
python3-urllib3	1.22-1ubuntu0.18.04.2
python3-yaml	3.12-1build2
python3-zope.interface	4.3.2-1build2
python3.6	3.6.9-1~18.04ubuntu1.3
python3.6-minimal	3.6.9-1~18.04ubuntu1.3
readline-common	7.0-3
rpcbind	0.2.3-0.6ubuntu0.18.04.1
rsync	3.1.2-2.1ubuntu1.1
rsyslog	8.32.0-1ubuntu4
run-one	1.17-0ubuntu1

OSS Name	Version
sbsigntool	0.6-3.2ubuntu2
screen	4.6.2-1ubuntu1
secureboot-db	1.4~ubuntu0.18.04.1
sed	4.4-2
sensible-utils	0.0.12
shared-mime-info	1.9-2
shim	15+1552672080.a4a1fbe-0ubuntu2
shim-signed	1.37~18.04.8+15+1552672080.a4a1fbe-0ubuntu2
smartmontools	6.5+svn4324-1ubuntu0.1
snapd	2.47.1+18.04
software-properties-common	0.96.24.32.14
sosreport	3.9.1-1ubuntu0.18.04.2
squashfs-tools	1:4.3-6ubuntu0.18.04.1
ssh-import-id	5.7-0ubuntu1.1
strace	4.21-1ubuntu1
sudo	1.8.21p2-3ubuntu1.3
systemd	237-3ubuntu10.43
systemd-sysv	237-3ubuntu10.43
sysvinit-utils	2.88dsf-59.10ubuntu1
tar	1.29b-2ubuntu0.1
tcpdump	4.9.3-0ubuntu0.18.04.1
telnet	0.17-41
thermald	1.7.0-5ubuntu5
time	1.7-25.1build1
tmux	2.6-3ubuntu0.2
tzdata	2020d-0ubuntu0.18.04
ubuntu-advantage-tools	17
ubuntu-keyring	2018.09.18.1~18.04.0
ubuntu-minimal	1.417.5
ubuntu-release-upgrader-core	1:18.04.40
ubuntu-server	1.417.4
ubuntu-standard	1.417.5
ucf	3.0038
udev	237-3ubuntu10.43
ufw	0.36-0ubuntu0.18.04.1
uidmap	1:4.5-1ubuntu2
unattended-upgrades	1.1ubuntu1.18.04.14

OSS Name	Version
unzip	6.0-21ubuntu1
update-manager-core	1:18.04.11.13
update-notifier-common	3.192.1.7
ureadahead	0.100.0-21
usbutils	1:007-4build1
util-linux	2.31.1-0.4ubuntu3.7
uuid-runtime	2.31.1-0.4ubuntu3.7
vim	2:8.0.1453-1ubuntu1.4
vim-common	2:8.0.1453-1ubuntu1.4
vim-runtime	2:8.0.1453-1ubuntu1.4
vim-tiny	2:8.0.1453-1ubuntu1.4
wget	1.19.4-1ubuntu2.2
whiptail	0.52.20-1ubuntu1
wireless-regdb	2018.05.09-0ubuntu1~18.04.1
xauth	1:1.0.10-1
xdelta3	3.0.11-dfsg-1ubuntu1
xdg-user-dirs	0.17-1ubuntu1
xfsprogs	4.9.0+nmu1ubuntu2
xkb-data	2.23.1-1ubuntu1.18.04.1
xxd	2:8.0.1453-1ubuntu1.4
xz-utils	5.2.2-1.3
zerofree	1.0.4-1
zlib1g	1:1.2.11.dfsg-0ubuntu2
zlib1g-dev	1:1.2.11.dfsg-0ubuntu2

List of softwares related to prometheus

Name	Version
Prometheus	2.19.0
alertmanager	0.20.0
node exporter	1.0.0
snmp exporter	0.18.0
ipmi exporter	1.2.0
mtail	v3.0.0-rc35

List of drivers not including ubuntu

Name	Version
CUDA driver	450.80.02
nvidia-persistenced	450.80.02

List of pre-installed container images

Name	Version
PyTorch	20.09-py3
TensorFlow	20.09-tf2-py3
MxNet	20.09-py3

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- amd64-microcode

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Argon2 reference source code package - reference C implementations

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.
```

```
You should have received a copy of the GNU General Public License along  
with this program; if not, write to the Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

- **GPL_Version3**

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and

modification follow.

TERMS AND CONDITIONS

0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,
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You should have received a copy of the GNU General Public License
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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

- **GPL_V3 with GCC Runtime Library Exception**

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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 year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

```
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```

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jloup@gzip.org           madler@alumni.caltech.edu
```

```
*/
```

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```
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```

Linux platform:

```
/usr/local/cuda-#. #
```

Mac platform:

```
/Developer/NVIDIA/CUDA-#. #
```

NVIDIA CUDA Samples

Description

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```
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```

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```
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```

and

```
$HOME/NVIDIA_CUDA-#.#_Samples
```

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```
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```

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Description

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```
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Release date: August 16, 2018

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Component	CUDA Runtime
Windows	<code>cuda.dll</code> , <code>cuda_static.lib</code> , <code>cuda.devrt.lib</code>
Mac OSX	<code>libcudart.dylib</code> , <code>libcudart_static.a</code> , <code>libcudadevrt.a</code>
Linux	<code>libcudart.so</code> , <code>libcudart_static.a</code> , <code>libcudadevrt.a</code>
Android	<code>libcudart.so</code> , <code>libcudart_static.a</code> , <code>libcudadevrt.a</code>
Component	CUDA FFT Library
Windows	<code>cufft.dll</code> , <code>cufftw.dll</code> , <code>cufft.lib</code> , <code>cufftw.lib</code>
Mac OSX	<code>libcufft.dylib</code> , <code>libcufft_static.a</code> , <code>libcufftw.dylib</code> , <code>libcufftw_static.a</code>
Linux	<code>libcufft.so</code> , <code>libcufft_static.a</code> , <code>libcufftw.so</code> , <code>libcufftw_static.a</code>
Android	<code>libcufft.so</code> , <code>libcufft_static.a</code> , <code>libcufftw.so</code> , <code>libcufftw_static.a</code>

Component	CUDA BLAS Library
Windows	cublas.dll, cublasLt.dll
Mac OSX	libcublas.dylib, libcublasLt.dylib, libcublas_static.a, libcublasLt_static.a
Linux	libcublas.so, libcublasLt.so, libcublas_static.a, libcublasLt_static.a
Android	libcublas.so, libcublasLt.so, libcublas_static.a, libcublasLt_static.a
Component	NVIDIA "Drop-in" BLAS Library
Windows	nvblas.dll
Mac OSX	libnvblas.dylib
Linux	libnvblas.so
Component	CUDA Sparse Matrix Library
Windows	cusparse.dll, cusparse.lib
Mac OSX	libcusparse.dylib, libcusparse_static.a
Linux	libcusparse.so, libcusparse_static.a
Android	libcusparse.so, libcusparse_static.a
Component	CUDA Linear Solver Library
Windows	cusolver.dll, cusolver.lib
Mac OSX	libcusolver.dylib, libcusolver_static.a
Linux	libcusolver.so, libcusolver_static.a
Android	libcusolver.so, libcusolver_static.a
Component	CUDA Random Number Generation Library
Windows	curand.dll, curand.lib
Mac OSX	libcurand.dylib, libcurand_static.a
Linux	libcurand.so, libcurand_static.a
Android	libcurand.so, libcurand_static.a
Component	NVIDIA Performance Primitives Library
Windows	nppc.dll, nppc.lib, nppial.dll, nppial.lib, nppicc.dll, nppicc.lib, nppicom.dll, nppicom.lib, nppidei.dll, nppidei.lib, nppif.dll, nppif.lib, nppig.dll, nppig.lib, nppim.dll, nppim.lib, nppist.dll, nppist.lib, nppisu.dll, nppisu.lib, nppitc.dll, nppitc.lib, npps.dll, npps.lib

Mac OSX	libnppc.dylib, libnppc_static.a, libnppial.dylib, libnppial_static.a, libnppicc.dylib, libnppicc_static.a, libnppicom.dylib, libnppicom_static.a, libnppidei.dylib, libnppidei_static.a, libnppif.dylib, libnppif_static.a, libnppig.dylib, libnppig_static.a, libnppim.dylib, libnppisu_static.a, libnppitc.dylib, libnppitc_static.a, libnpps.dylib, libnpps_static.a
Linux	libnppc.so, libnppc_static.a, libnppial.so, libnppial_static.a, libnppicc.so, libnppicc_static.a, libnppicom.so, libnppicom_static.a, libnppidei.so, libnppidei_static.a, libnppif.so, libnppif_static.a, libnppig.so, libnppig_static.a, libnppim.so, libnppim_static.a, libnppist.so, libnppist_static.a, libnppisu.so, libnppisu_static.a, libnppitc.so, libnppitc_static.a, libnpps.so, libnpps_static.a
Android	libnppc.so, libnppc_static.a, libnppial.so, libnppial_static.a, libnppicc.so, libnppicc_static.a, libnppicom.so, libnppicom_static.a, libnppidei.so, libnppidei_static.a, libnppif.so, libnppif_static.a, libnppig.so, libnppig_static.a, libnppim.so, libnppim_static.a, libnppist.so, libnppist_static.a, libnppisu.so, libnppisu_static.a, libnppitc.so, libnppitc_static.a, libnpps.so, libnpps_static.a
Component	NVIDIA JPEG Library
Linux	libnvjpeg.so, libnvjpeg_static.a
Component	Internal common library required for statically linking to cuBLAS, cuSPARSE, cuFFT, cuRAND, nvJPEG and NPP
Mac OSX	libculibos.a
Linux	libculibos.a
Component	NVIDIA Runtime Compilation Library and Header
All	nVRTC.h
Windows	nVRTC.dll, nVRTC-builtins.dll
Mac OSX	libnVRTC.dylib, libnVRTC-builtins.dylib
Linux	libnVRTC.so, libnVRTC-builtins.so
Component	NVIDIA Optimizing Compiler Library
Windows	nvvm.dll
Mac OSX	libnvvm.dylib

Linux	libnvvm.so
Component	NVIDIA Common Device Math Functions Library
Windows	libdevice.10.bc
Mac OSX	libdevice.10.bc
Linux	libdevice.10.bc
Component	CUDA Occupancy Calculation Header Library
All	cuda_occupancy.h
Component	CUDA Half Precision Headers
All	cuda_fp16.h, cuda_fp16.hpp
Component	CUDA Profiling Tools Interface (CUPTI) Library
Windows	cupti.dll
Mac OSX	libcupti.dylib
Linux	libcupti.so
Component	NVIDIA Tools Extension Library
Windows	nvToolsExt.dll, nvToolsExt.lib
Mac OSX	libnvToolsExt.dylib
Linux	libnvToolsExt.so
Component	NVIDIA CUDA Driver Libraries
Linux	libcuda.so, libnvidia-ptxjitcompiler.so
Component	PTX Compiler Static Library (nvPTXCompiler.h)
Windows	nvptxcompiler_static.lib
Linux	libnvptxcompiler_static.a

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-----
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