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Zinrai Deep Learning System  
200M/210H  
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P3KD-1962-02EN

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- **TensorFlow 2.6.0**

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3rdparty/onnx-tensorrt/third\_party/onnx/third\_party/benchmark  
3rdparty/onnx-tensorrt/third\_party/onnx/tools/protoc-gen-mypy.py  
3rdparty/ps-lite  
3rdparty/tvm  
3rdparty/tvm/3rdparty/dlpack  
3rdparty/tvm/3rdparty/dmlc-core  
3rdparty/tvm/3rdparty/bfloat16/bfloat16.cc  
include/dlpack (header symlinks to 3rdparty/dlpack/include/dlpack)  
include/dmlc (header symlinks to 3rdparty/dmlc-core/include/dmlc)  
include/onednn (header symlinks to 3rdparty/onednn)  
include/mshadow (header symlinks to 3rdparty/mshadow/mshadow)  
include/nnvm (header symlinks to 3rdparty/tvm/nnvm/include/nnvm)  
src/operator/deformable\_convolution-inl.h  
src/operator/deformable\_convolution.cc  
src/operator/contrib/deformable\_psroi\_pooling-inl.h  
src/operator/contrib/deformable\_psroi\_pooling.cc  
src/operator/contrib/deformable\_psroi\_pooling.cu  
src/operator/contrib/multi\_proposal-inl.h  
src/operator/contrib/multi\_proposal.cc  
src/operator/contrib/multi\_proposal.cu  
src/operator/contrib/psroi\_pooling.cc  
src/operator/contrib/psroi\_pooling.cu

```

src/operator/nn/dnnl/dnnl_base-inl.h
src/operator/special_functions-inl.h
docs/python_docs/themes/mx-theme/mxtheme/static/material-design-icons-3.0.1 (Copy
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3rdparty/intgemm
3rdparty/miniz/miniz.c
3rdparty/miniz/miniz.h
3rdparty/onnx-tensorrt
3rdparty/onnx-tensorrt/third_party/onnx
3rdparty/tvm/3rdparty/cma
3rdparty/tvm/3rdparty/compiler-rt/builtin_fp16.h
docs/static_site/src/assets/js/clipboard.js
docs/python_docs/themes/mx-theme
src/operator/contrib/modulated_deformable_convolution-inl.h
src/operator/contrib/modulated_deformable_convolution.cc
src/operator/contrib/modulated_deformable_convolution.cu
src/operator/contrib/nn/modulated_deformable_im2col.cuh
src/operator/contrib/nn/modulated_deformable_im2col.h
src/operator/nn/layer_norm_cpu.h

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3rdparty/onednn/cmake/FindBLAS.cmake (see licenses/LICENSE.onednn.txt)
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3rdparty/onnx-tensorrt/third_party/onnx/third_party/pybind11/tools/
FindPythonLibsNew.cmake
3rdparty/ctc_include/contrib/moderngpu
3rdparty/nvidia_cub
3rdparty/nvidia_cub/test/mersenne.h
3rdparty/googletest/googletest
3rdparty/googletest/googletest
cmake/upstream/FindCUDAToolkit.cmake
cmake/upstream/FindBLAS.cmake
cmake/upstream/select_compute_arch.cmake
python/mxnet/onnx/mx2onnx/_export_onnx.py
python/mxnet/onnx/mx2onnx/_op_translations/_op_translations_opset12.py
python/mxnet/onnx/mx2onnx/_op_translations/_op_translations_opset13.py
src/operator/contrib/erfinv-inl.h
src/operator/numPy/np_einsum_op-inl.h
src/operator/numPy/np_einsum_path_op-inl.h
src/operator/numPy/np_einsum_op.cc

```

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```

3rdparty/dmlc-core/include/dmlc/concurrentqueue.h
3rdparty/onnx-tensorrt/third_party/onnx/third_party/pybind11/tools/
FindEigen3.cmake
3rdparty/tvm/3rdparty/picojson/picojson.h
include/dmlc/concurrentqueue.h (symlink to 3rdparty/dmlc-core/include/dmlc/
concurrentqueue.h)

```

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---

```

3rdparty/openmp

```

---

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---

```

src/operator/nn/pool.h

```

```

src/operator/nn/pool.cuh
src/operator/nn/im2col.h
src/operator/nn/im2col.cuh
src/operator/contrib/nn/deformable_im2col.h
src/operator/contrib/nn/deformable_im2col.cuh
src/operator/contrib/nn/modulated_deformable_im2col.h
src/operator/contrib/nn/modulated_deformable_im2col.cuh

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3rdparty/dmlc-core/include/dmlc/blockingconcurrentqueue.h
include/dmlc/blockingconcurrentqueue.h (symlink to 3rdparty/dmlc-core/include/
dmlc/blockingconcurrentqueue.h)

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tools/lint/git-clang-format-13

```

### 3. Required Software

If you use this product, you need the following OSS. The use of OSS is subject to the applicable terms and conditions (license terms), and should be obtained and used at your own risk. Please contact Fujitsu if the source code distribution of a package that is defined under the terms of the license is required.

The download URL may be changed after the product is provided. If you can't download it, please contact Fujitsu.

The download URL is as follows:

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

This system is configured by a lot of OSS described in the table below, which has various licenses. You have to agree to all terms and conditions. This manual contains most copies of the license terms, and some variation of license of terms are included in the COPYRIGHTS file in their package or installed directory only.

#### List of all OSS included in Ubuntu environment

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OSS Name	Version
accountsservice	0.6.55-0ubuntu12~20.04.4
adduser	3.118ubuntu2
adwaita-icon-theme	3.36.1-2ubuntu0.20.04.2
alsa-topology-conf	1.2.2-1
alsa-ucm-conf	1.2.2-1ubuntu0.11
amd64-microcode	3.20191218.1ubuntu1
apparmor	2.13.3-7ubuntu5.1
apport	2.20.11-0ubuntu27.21
apport-symptoms	0.23
apt	2.0.6
apt-utils	2.0.6
at	3.1.23-1ubuntu1
base-files	11ubuntu5.4
base-passwd	3.5.47
bash	5.0-6ubuntu1.1
bash-completion	1:2.10-1ubuntu1
bc	1.07.1-2build1
bcache-tools	1.0.8-3ubuntu0.1
bind9-dnsutils	1:9.16.1-0ubuntu2.8
bind9-host	1:9.16.1-0ubuntu2.8
bind9-libs	1:9.16.1-0ubuntu2.8
binutils	2.34-6ubuntu1.3
binutils-common	2.34-6ubuntu1.3

OSS Name	Version
binutils-x86-64-linux-gnu	2.34-6ubuntu1.3
bolt	0.8-4ubuntu1
bridge-utils	1.6-2ubuntu1
bsdmainutils	11.1.2ubuntu3
bsdutils	1:2.34-0.1ubuntu9.1
btrfs-progs	5.4.1-2
bubblewrap	0.4.0-1ubuntu4
build-essential	12.8ubuntu1.1
busybox-initramfs	1:1.30.1-4ubuntu6.3
busybox-static	1:1.30.1-4ubuntu6.3
byobu	5.133-0ubuntu1
bzip2	1.0.8-2
ca-certificates	20210119~20.04.2
cachefilesd	0.10.10-0.2ubuntu1
cloud-guest-utils	0.31-7-gd99b2d76-0ubuntu1
cloud-init	21.3-1-g6803368d-0ubuntu1~20.04.4
cloud-initramfs-copymods	0.45ubuntu1
cloud-initramfs-dyn-netconf	0.45ubuntu1
command-not-found	20.04.4
console-setup	1.194ubuntu3
console-setup-linux	1.194ubuntu3
containerd.io	1.4.11-1
coreutils	8.30-3ubuntu2
cpio	2.13+dfsg-2ubuntu0.3
cpp	4:9.3.0-1ubuntu2
cpp-9	9.3.0-17ubuntu1~20.04
crash	7.2.8-1ubuntu1.20.04.1
crda	3.18-1build1
cron	3.0pl1-136ubuntu1
cryptsetup	2:2.2.2-3ubuntu2.3
cryptsetup-bin	2:2.2.2-3ubuntu2.3
cryptsetup-initramfs	2:2.2.2-3ubuntu2.3
cryptsetup-run	2:2.2.2-3ubuntu2.3
cuda-drivers	470.57.02-1
cuda-drivers-470	470.57.02-1
cuda-drivers-fabricmanager-470	470.57.02-1
curl	7.68.0-1ubuntu2.7

OSS Name	Version
dash	0.5.10.2-6
datacenter-gpu-manager	1:2.3.1
dbus	1.12.16-2ubuntu2.1
dbus-user-session	1.12.16-2ubuntu2.1
dconf-gsettings-backend	0.36.0-1
dconf-service	0.36.0-1
dctrl-tools	2.24-3
debconf	1.5.73
debconf-i18n	1.5.73
debianutils	4.9.1
dictionaries-common	1.28.1
diffutils	1:3.7-3
dirmngr	2.2.19-3ubuntu2.1
distro-info	0.23ubuntu1
distro-info-data	0.43ubuntu1.9
dkms	2.8.1-5ubuntu2
dmeventd	2:1.02.167-1ubuntu1
dmidecode	3.2-3
dmsetup	2:1.02.167-1ubuntu1
docker-ce	5:20.10.10~3-0~ubuntu-focal
docker-ce-cli	5:20.10.10~3-0~ubuntu-focal
docker-ce-rootless-extras	5:20.10.10~3-0~ubuntu-focal
docker-scan-plugin	0.9.0~ubuntu-focal
dosfstools	4.1-2
dpkg	1.19.7ubuntu3
dpkg-dev	1.19.7ubuntu3
dump	0.4b46-6
e2fsprogs	1.45.5-2ubuntu1
eatmydata	105-7
ed	1.16-1
efibootmgr	17-Jan
eject	2.1.5+deb1+cvs20081104-14
emacs25-common	3.0.4
ethtool	1:5.4-1
evolution-data-server	3.36.5-0ubuntu1
evolution-data-server-common	3.36.5-0ubuntu1
fakeroot	1.24-1

OSS Name	Version
fdisk	2.34-0.1ubuntu9.1
file	1:5.38-4
finalrd	6~ubuntu20.04.1
findutils	4.7.0-1ubuntu1
fontconfig	2.13.1-2ubuntu3
fontconfig-config	2.13.1-2ubuntu3
fonts-dejavu-core	2.37-1
fonts-ubuntu-console	0.83-4ubuntu1
freeipmi	1.6.4-3ubuntu1.1
freeipmi-bmc-watchdog	1.6.4-3ubuntu1.1
freeipmi-common	1.6.4-3ubuntu1.1
freeipmi-ipmidetect	1.6.4-3ubuntu1.1
freeipmi-tools	1.6.4-3ubuntu1.1
friendly-recovery	0.2.41ubuntu0.20.04.1
ftp	0.17-34.1
fuse	2.9.9-3
fwupd	1.5.11-0ubuntu1~20.04.2
fwupd-signed	1.27.1ubuntu5+1.5.11-0ubuntu1~20.04.2
g++	4:9.3.0-1ubuntu2
g++-9	9.3.0-17ubuntu1~20.04
gawk	1:5.0.1+dfsg-1
gcc	4:9.3.0-1ubuntu2
gcc-10-base	10.3.0-1ubuntu1~20.04
gcc-9	9.3.0-17ubuntu1~20.04
gcc-9-base	9.3.0-17ubuntu1~20.04
gcr	3.36.0-2build1
gdisk	1.0.5-1
geoclue-2.0	2.5.6-0ubuntu1
gettext-base	0.19.8.1-10build1
gir1.2-accountsservice-1.0	0.6.55-0ubuntu12~20.04.4
gir1.2-atk-1.0	2.35.1-1ubuntu2
gir1.2-atspi-2.0	2.36.0-2
gir1.2-freedesktop	1.64.1-1~ubuntu20.04.1
gir1.2-gck-1	3.36.0-2build1
gir1.2-gcr-3	3.36.0-2build1
gir1.2-gdesktopenums-3.0	3.36.0-1ubuntu1
gir1.2-gdkpixbuf-2.0	2.40.0+dfsg-3ubuntu0.2

OSS Name	Version
gir1.2-gdm-1.0	3.36.3-0ubuntu0.20.04.4
gir1.2-geoclue-2.0	2.5.6-0ubuntu1
gir1.2-glib-2.0	1.64.1-1~ubuntu20.04.1
gir1.2-gnomebluetooth-1.0	3.34.3-0ubuntu1
gir1.2-gnomedesktop-3.0	3.36.8-0ubuntu1
gir1.2-graphene-1.0	1.10.0-1build2
gir1.2-gtk-3.0	3.24.20-0ubuntu1
gir1.2-gweather-3.0	3.36.1-1~ubuntu20.04.1
gir1.2-ibus-1.0	1.5.22-2ubuntu2.1
gir1.2-json-1.0	1.4.4-2ubuntu2
gir1.2-mutter-6	3.36.9-0ubuntu0.20.04.1
gir1.2-nm-1.0	1.22.10-1ubuntu2.2
gir1.2-nma-1.0	1.8.24-1ubuntu3
gir1.2-packagekitglib-1.0	1.1.13-2ubuntu1.1
gir1.2-pango-1.0	1.44.7-2ubuntu4
gir1.2-polkit-1.0	0.105-26ubuntu1.1
gir1.2-rsvg-2.0	2.48.9-1ubuntu0.20.04.1
gir1.2-soup-2.4	2.70.0-1
gir1.2-upowerglib-1.0	0.99.11-1build2
git	1:2.25.1-1ubuntu3.2
git-man	1:2.25.1-1ubuntu3.2
gjs	1.64.5-0ubuntu0.20.04.01
glib-networking	2.64.2-1ubuntu0.1
glib-networking-common	2.64.2-1ubuntu0.1
glib-networking-services	2.64.2-1ubuntu0.1
gnome-desktop3-data	3.36.8-0ubuntu1
gnome-keyring	3.36.0-1ubuntu1
gnome-settings-daemon	3.36.1-0ubuntu1.1
gnome-settings-daemon-common	3.36.1-0ubuntu1.1
gnome-shell	3.36.9-0ubuntu0.20.04.2
gnome-shell-common	3.36.9-0ubuntu0.20.04.2
gnupg	2.2.19-3ubuntu2.1
gnupg-l10n	2.2.19-3ubuntu2.1
gnupg-utils	2.2.19-3ubuntu2.1
gpg	2.2.19-3ubuntu2.1
gpg-agent	2.2.19-3ubuntu2.1
gpg-wks-client	2.2.19-3ubuntu2.1



OSS Name	Version
gpg-wks-server	2.2.19-3ubuntu2.1
gpgconf	2.2.19-3ubuntu2.1
gpgsm	2.2.19-3ubuntu2.1
gpgv	2.2.19-3ubuntu2.1
grafana	7.5.10
grep	3.4-1
groff-base	1.22.4-4build1
grub-common	2.04-1ubuntu26.13
grub-efi-amd64	2.04-1ubuntu44.2
grub-efi-amd64-bin	2.04-1ubuntu44.2
grub-efi-amd64-signed	1.167.2+2.04-1ubuntu44.2
grub2-common	2.04-1ubuntu26.13
gsettings-desktop-schemas	3.36.0-1ubuntu1
gtk-update-icon-cache	3.24.20-0ubuntu1
gzip	1.10-0ubuntu4
hdparm	9.58+ds-4
hicolor-icon-theme	0.17-2
hostname	3.23
htop	2.2.0-2build1
humanity-icon-theme	0.6.15
hunspell-en-us	1:2018.04.16-1
info	6.7.0.dfsg.2-5
init	1.57
init-system-helpers	1.57
initramfs-tools	0.136ubuntu6.6
initramfs-tools-bin	0.136ubuntu6.6
initramfs-tools-core	0.136ubuntu6.6
install-info	6.7.0.dfsg.2-5
intel-microcode	3.20210608.0ubuntu0.20.04.1
iproute2	5.5.0-1ubuntu1
iptables	1.8.4-3ubuntu2
iptables-persistent	1.0.14
iputils-ping	3:20190709-3
iputils-tracepath	3:20190709-3
irqbalance	1.6.0-3ubuntu1
isc-dhcp-client	4.4.1-2.1ubuntu5.20.04.2
isc-dhcp-common	4.4.1-2.1ubuntu5.20.04.2

OSS Name	Version
iso-codes	4.4-1
iucode-tool	2.3.1-1
iw	5.4-1
kbd	2.0.4-4ubuntu2
kdump-tools	1:1.6.7-1ubuntu2.2
kexec-tools	1:2.0.18-1ubuntu1
keyboard-configuration	1.194ubuntu3
keyutils	1.6-6ubuntu1
klibc-utils	2.0.7-1ubuntu5
kmod	27-1ubuntu2
kpartx	0.8.3-1ubuntu2
krb5-locales	1.17-6ubuntu4.1
landscape-common	19.12-0ubuntu4.2
language-selector-common	0.204.2
ledmon	0.94-1
less	551-1ubuntu0.1
libaccountsservice0	0.6.55-0ubuntu12~20.04.4
libacl1	2.2.53-6
libaio1	0.3.112-5
libalgorithm-diff-perl	1.19.03-2
libalgorithm-diff-xs-perl	0.04-6
libalgorithm-merge-perl	0.08-3
libapparmor1	2.13.3-7ubuntu5.1
libappstream4	0.12.10-2
libapt-pkg6.0	2.0.6
libarchive13	3.4.0-2ubuntu1
libargon2-1	0~20171227-0.2
libasan5	9.3.0-17ubuntu1~20.04
libasn1-8-heimdal	7.7.0+dfsg-1ubuntu1
libasound2	1.2.2-2.1ubuntu2.4
libasound2-data	1.2.2-2.1ubuntu2.4
libaspell15	0.60.8-1ubuntu0.1
libassuan0	2.5.3-7ubuntu2
libasyncns0	0.8-6
libatasmart4	0.19-5
libatk-bridge2.0-0	2.34.2-0ubuntu2~20.04.1
libatk1.0-0	2.35.1-1ubuntu2

OSS Name	Version
libatk1.0-data	2.35.1-1ubuntu2
libatm1	1:2.5.1-4
libatomic1	10.3.0-1ubuntu1~20.04
libatspi2.0-0	2.36.0-2
libattr1	1:2.4.48-5
libaudit-common	1:2.8.5-2ubuntu6
libaudit1	1:2.8.5-2ubuntu6
libavahi-client3	0.7-4ubuntu7.1
libavahi-common-data	0.7-4ubuntu7.1
libavahi-common3	0.7-4ubuntu7.1
libavahi-glib1	0.7-4ubuntu7.1
libbinutils	2.34-6ubuntu1.3
libblkid1	2.34-0.1ubuntu9.1
libblockdev-crypto2	2.23-2ubuntu3
libblockdev-fs2	2.23-2ubuntu3
libblockdev-loop2	2.23-2ubuntu3
libblockdev-part-err2	2.23-2ubuntu3
libblockdev-part2	2.23-2ubuntu3
libblockdev-swap2	2.23-2ubuntu3
libblockdev-utils2	2.23-2ubuntu3
libblockdev2	2.23-2ubuntu3
libboost-thread1.71.0	1.71.0-6ubuntu6
libbrotli1	1.0.7-6ubuntu0.1
libbsd0	0.10.0-1
libbz2-1.0	1.0.8-2
libc-bin	2.31-0ubuntu9.2
libc-dev-bin	2.31-0ubuntu9.2
libc6	2.31-0ubuntu9.2
libc6-dev	2.31-0ubuntu9.2
libcairo-gobject2	1.16.0-4ubuntu1
libcairo2	1.16.0-4ubuntu1
libcamel-1.2-62	3.36.5-0ubuntu1
libcanberra-gtk3-0	0.30-7ubuntu1
libcanberra0	0.30-7ubuntu1
libcap-ng0	0.7.9-2.1build1
libcap2	1:2.32-1
libcap2-bin	1:2.32-1

OSS Name	Version
libcbor0.6	0.6.0-0ubuntu1
libcc1-0	10.3.0-1ubuntu1~20.04
libcolord2	1.4.4-2
libcom-err2	1.45.5-2ubuntu1
libcrypt-dev	1:4.4.10-10ubuntu4
libcrypt1	1:4.4.10-10ubuntu4
libcryptsetup12	2:2.2.2-3ubuntu2.3
libctf-nobfd0	2.34-6ubuntu1.3
libctf0	2.34-6ubuntu1.3
libcups2	2.3.1-9ubuntu1.1
libcurl3-gnutls	7.68.0-1ubuntu2.7
libcurl4	7.68.0-1ubuntu2.7
libdatrie1	0.2.12-3
libdb5.3	5.3.28+dfsg1-0.6ubuntu2
libdbus-1-3	1.12.16-2ubuntu2.1
libdbus-glib-1-2	0.110-5fakessync1
libdconf1	0.36.0-1
libdebconfclient0	0.251ubuntu1
libdevmapper-event1.02.1	2:1.02.167-1ubuntu1
libdevmapper1.02.1	2:1.02.167-1ubuntu1
libdns-export1109	1:9.11.16+dfsg-3~ubuntu1
libdpkg-perl	1.19.7ubuntu3
libdrm-amdgpu1	2.4.105-3~20.04.2
libdrm-common	2.4.105-3~20.04.2
libdrm-intel1	2.4.105-3~20.04.2
libdrm-nouveau2	2.4.105-3~20.04.2
libdrm-radeon1	2.4.105-3~20.04.2
libdrm2	2.4.105-3~20.04.2
libdw1	0.176-1.1build1
libeatmydata1	105-7
libebook-1.2-10	3.36.5-0ubuntu1
libebook-1.2-20	3.36.5-0ubuntu1
libebook-contacts-1.2-3	3.36.5-0ubuntu1
libecal-2.0-1	3.36.5-0ubuntu1
libedata-book-1.2-26	3.36.5-0ubuntu1
libedata-cal-2.0-1	3.36.5-0ubuntu1
libedataserver-1.2-24	3.36.5-0ubuntu1

OSS Name	Version
libedataserverui-1.2-2	3.36.5-0ubuntu1
libedit2	3.1-20191231-1
libefiboot1	37-2ubuntu2.2
libefivar1	37-2ubuntu2.2
libegl-mesa0	21.0.3-0ubuntu0.3~20.04.3
libegl1	1.3.2-1~ubuntu0.20.04.1
libelf1	0.176-1.1build1
libenchanted-2-2	2.2.8-1ubuntu0.20.04.1
libepoxy0	1.5.4-1
liberror-perl	0.17029-1
libestr0	0.1.10-2.1
libevdev2	1.9.0+dfsg-1ubuntu0.1
libevent-2.1-7	2.1.11-stable-1
libexpat1	2.2.9-1build1
libext2fs2	1.45.5-2ubuntu1
libfakeroot	1.24-1
libfastjson4	0.99.8-2
libfdisk1	2.34-0.1ubuntu9.1
libffi7	3.3-4
libfido2-1	1.3.1-1ubuntu2
libfile-fcntllock-perl	0.22-3build4
libfl2	2.6.4-6.2
libflac8	1.3.3-1build1
libfontconfig1	2.13.1-2ubuntu3
libfontenc1	1:1.1.4-0ubuntu1
libfreeipmi17	1.6.4-3ubuntu1.1
libfreetype6	2.10.1-2ubuntu0.1
libfribidi0	1.0.8-2
libfuse2	2.9.9-3
libfwupd2	1.5.11-0ubuntu1~20.04.2
libfwupdplugin1	1.5.11-0ubuntu1~20.04.2
libgbm1	21.0.3-0ubuntu0.3~20.04.3
libgcab-1.0-0	1.4-1
libgcc-9-dev	9.3.0-17ubuntu1~20.04
libgcc-s1	10.3.0-1ubuntu1~20.04
libgck-1-0	3.36.0-2build1
libgcr-base-3-1	3.36.0-2build1

OSS Name	Version
libgcr-ui-3-1	3.36.0-2build1
libgcrpt20	1.8.5-5ubuntu1.1
libgdata-common	0.17.12-1
libgdata22	0.17.12-1
libgdbm-compat4	1.18.1-5
libgdbm6	1.18.1-5
libgdk-pixbuf2.0-0	2.40.0+dfsg-3ubuntu0.2
libgdk-pixbuf2.0-common	2.40.0+dfsg-3ubuntu0.2
libgdm1	3.36.3-0ubuntu0.20.04.4
libgeoclue-2-0	2.5.6-0ubuntu1
libgeocode-glib0	3.26.2-2
libgirepository-1.0-1	1.64.1-1~ubuntu20.04.1
libgjs0g	1.64.5-0ubuntu0.20.04.01
libgl1	1.3.2-1~ubuntu0.20.04.1
libgl1-mesa-dri	21.0.3-0ubuntu0.3~20.04.3
libglapi-mesa	21.0.3-0ubuntu0.3~20.04.3
libgles2	1.3.2-1~ubuntu0.20.04.1
libglib2.0-0	2.64.6-1~ubuntu20.04.4
libglib2.0-bin	2.64.6-1~ubuntu20.04.4
libglib2.0-data	2.64.6-1~ubuntu20.04.4
libglvnd0	1.3.2-1~ubuntu0.20.04.1
libglx-mesa0	21.0.3-0ubuntu0.3~20.04.3
libglx0	1.3.2-1~ubuntu0.20.04.1
libgmp10	2:6.2.0+dfsg-4
libgnome-autoar-0-0	0.2.3-2ubuntu0.4
libgnome-bluetooth13	3.34.3-0ubuntu1
libgnome-desktop-3-19	3.36.8-0ubuntu1
libgnutls30	3.6.13-2ubuntu1.6
libgoa-1.0-0b	3.36.1-0ubuntu1
libgoa-1.0-common	3.36.1-0ubuntu1
libgomp1	10.3.0-1ubuntu1~20.04
libgpg-error0	1.37-1
libgpgme11	1.13.1-7ubuntu2
libgpm2	1.20.7-5
libgraphene-1.0-0	1.10.0-1build2
libgraphite2-3	1.3.13-11build1
libgssapi-krb5-2	1.17-6ubuntu4.1

OSS Name	Version
libgssapi3-heimdal	7.7.0+dfsg-1ubuntu1
libgstreamer-gl1.0-0	1.16.2-4ubuntu0.1
libgstreamer-plugins-base1.0-0	1.16.2-4ubuntu0.1
libgstreamer1.0-0	1.16.2-2
libgtk-3-0	3.24.20-0ubuntu1
libgtk-3-common	3.24.20-0ubuntu1
libgudev-1.0-0	1:233-1
libusb2	0.3.4-0.1
libgweather-3-16	3.36.1-1~ubuntu20.04.1
libgweather-common	3.36.1-1~ubuntu20.04.1
libharfbuzz-icu0	2.6.4-1ubuntu4
libharfbuzz0b	2.6.4-1ubuntu4
libhcrypto4-heimdal	7.7.0+dfsg-1ubuntu1
libheimbase1-heimdal	7.7.0+dfsg-1ubuntu1
libheimntlm0-heimdal	7.7.0+dfsg-1ubuntu1
libhogweed5	3.5.1+really3.5.1-2ubuntu0.2
libhunspell-1.7-0	1.7.0-2build2
libhx509-5-heimdal	7.7.0+dfsg-1ubuntu1
libhyphen0	2.8.8-7
libibus-1.0-5	1.5.22-2ubuntu2.1
libical3	3.0.8-1
libice6	2:1.0.10-0ubuntu1
libicu66	66.1-2ubuntu2
libidn2-0	2.2.0-2
libimobiledevice6	1.2.1~git20191129.9f79242-1build1
libinput-bin	1.15.5-1ubuntu0.2
libinput10	1.15.5-1ubuntu0.2
libip4tc2	1.8.4-3ubuntu2
libip6tc2	1.8.4-3ubuntu2
libipmiconsole2	1.6.4-3ubuntu1.1
libipmidetect0	1.6.4-3ubuntu1.1
libisc-export1105	1:9.11.16+dfsg-3~ubuntu1
libisl22	0.22.1-1
libisns0	0.97-3
libitm1	10.3.0-1ubuntu1~20.04
libjansson4	2.12-1build1
libjavascriptcoregtk-4.0-18	2.32.4-0ubuntu0.20.04.1

OSS Name	Version
libjbig0	2.1-3.1build1
libjcat1	0.1.3-2~ubuntu20.04.1
libjpeg-turbo8	2.0.3-0ubuntu1.20.04.1
libjpeg8	8c-2ubuntu8
libjson-c4	0.13.1+dfsg-7ubuntu0.3
libjson-glib-1.0-0	1.4.4-2ubuntu2
libjson-glib-1.0-common	1.4.4-2ubuntu2
libk5crypto3	1.17-6ubuntu4.1
libkeyutils1	1.6-6ubuntu1
libklibc	2.0.7-1ubuntu5
libkmod2	27-1ubuntu2
libkrb5-26-heimdal	7.7.0+dfsg-1ubuntu1
libkrb5-3	1.17-6ubuntu4.1
libkrb5support0	1.17-6ubuntu4.1
libksba8	1.3.5-2
liblcms2-2	2.9-4
libldap-2.4-2	2.4.49+dfsg-2ubuntu1.8
libldap-common	2.4.49+dfsg-2ubuntu1.8
libllvm12	1:12.0.0-3ubuntu1~20.04.4
liblmbd0	0.9.24-1
liblocale-gettext-perl	1.07-4
liblsan0	10.3.0-1ubuntu1~20.04
libltdl7	2.4.6-14
liblvm2cmd2.03	2.03.07-1ubuntu1
liblz4-1	1.9.2-2ubuntu0.20.04.1
liblzma5	5.2.4-1ubuntu1
liblz0-2	2.10-2
libmagic-mgc	1:5.38-4
libmagic1	1:5.38-4
libmaxminddb0	1.4.2-0ubuntu1.20.04.1
libmm-glib0	1.16.6-2~20.04
libmnl0	1.0.4-2
libmount1	2.34-0.1ubuntu9.1
libmozjs-68-0	68.6.0-1ubuntu1
libmpc3	1.1.0-1
libmpdec2	2.4.2-3
libmpfr6	4.0.2-1



OSS Name	Version
libmspack0	0.10.1-2
libmtdev1	1.1.5-1.1
libmutter-6-0	3.36.9-0ubuntu0.20.04.1
libmysqlclient21	8.0.27-0ubuntu0.20.04.1
libncurses6	6.2-0ubuntu2
libncursesw6	6.2-0ubuntu2
libnetfilter-contrack3	1.0.7-2
libnetplan0	0.103-0ubuntu5~20.04.2
libnettle7	3.5.1+really3.5.1-2ubuntu0.2
libnewt0.52	0.52.21-4ubuntu2
libnfnetworking0	1.0.1-3build1
libnfsidmap2	0.25-5.1ubuntu1
libnftnl11	1.1.5-1
libnghttp2-14	1.40.0-1build1
libnl-3-200	3.4.0-1
libnl-genl-3-200	3.4.0-1
libnm0	1.22.10-1ubuntu2.2
libnma0	1.8.24-1ubuntu3
libnotify4	0.7.9-1ubuntu2
libnph0	1.6-1
libnspr4	2:4.25-1
libnss-systemd	245.4-4ubuntu3.13
libnss3	2:3.49.1-1ubuntu1.5
libntfs-3g883	1:2017.3.23AR.3-3ubuntu1.1
libnuma1	2.0.12-1
libnvidia-cfg-470	470.57.02-0ubuntu1
libnvidia-common-470	470.57.02-0ubuntu1
libnvidia-compute-470	470.57.02-0ubuntu1
libnvidia-container-tools	1.5.1-1
libnvidia-container1	1.5.1-1
libnvidia-decode-470	470.57.02-0ubuntu1
libnvidia-encode-470	470.57.02-0ubuntu1
libnvidia-extra-470	470.57.02-0ubuntu1
libnvidia-fbc1-470	470.57.02-0ubuntu1
libnvidia-gl-470	470.57.02-0ubuntu1
libnvidia-ifr1-470	470.57.02-0ubuntu1
libogg0	1.3.4-0ubuntu1

OSS Name	Version
libopengl0	1.3.2-1~ubuntu0.20.04.1
libopenipmi0	2.0.27-0ubuntu2
libopenjp2-7	2.3.1-1ubuntu4.20.04.1
liborc-0.4-0	1:0.4.31-1
libp11-kit0	0.23.20-1ubuntu0.1
libpackagekit-glib2-18	1.1.13-2ubuntu1.1
libpam-cap	1:2.32-1
libpam-modules	1.3.1-5ubuntu4.3
libpam-modules-bin	1.3.1-5ubuntu4.3
libpam-runtime	1.3.1-5ubuntu4.3
libpam-systemd	245.4-4ubuntu3.13
libpam0g	1.3.1-5ubuntu4.3
libpango-1.0-0	1.44.7-2ubuntu4
libpangocairo-1.0-0	1.44.7-2ubuntu4
libpangoft2-1.0-0	1.44.7-2ubuntu4
libpangoxft-1.0-0	1.44.7-2ubuntu4
libparted-fs-resize0	3.3-4ubuntu0.20.04.1
libparted2	3.3-4ubuntu0.20.04.1
libpcap0.8	1.9.1-3
libpci-dev	1:3.6.4-1ubuntu0.20.04.1
libpci3	1:3.6.4-1ubuntu0.20.04.1
libpciaccess0	0.16-0ubuntu1
libpcre2-8-0	10.34-7
libpcre3	2:8.39-12build1
libperl5.30	5.30.0-9ubuntu0.2
libphonenumbers7	7.1.0-5ubuntu11
libpipeline1	1.5.2-2build1
libpixman-1-0	0.38.4-0ubuntu1
libplist3	2.1.0-4build2
libplymouth5	0.9.4git20200323-0ubuntu6.2
libpng16-16	1.6.37-2
libpolkit-agent-1-0	0.105-26ubuntu1.1
libpolkit-gobject-1-0	0.105-26ubuntu1.1
libpopt0	1.16-14
libprocps8	2:3.3.16-1ubuntu2.3
libprotobuf17	3.6.1.3-2ubuntu5
libproxy1v5	0.4.15-10ubuntu1.2

OSS Name	Version
libpsl5	0.21.0-1ubuntu1
libpulse-mainloop-glib0	1:13.99.1-1ubuntu3.12
libpulse0	1:13.99.1-1ubuntu3.12
libpython3-stdlib	3.8.2-0ubuntu2
libpython3.8	3.8.10-0ubuntu1~20.04.1
libpython3.8-minimal	3.8.10-0ubuntu1~20.04.1
libpython3.8-stdlib	3.8.10-0ubuntu1~20.04.1
libquadmath0	10.3.0-1ubuntu1~20.04
libreadline5	5.2+dfsg-3build3
libreadline8	8.0-4
librest-0.7-0	0.8.1-1
libroken18-heimdal	7.7.0+dfsg-1ubuntu1
librsvg2-2	2.48.9-1ubuntu0.20.04.1
librsvg2-common	2.48.9-1ubuntu0.20.04.1
librtmp1	2.4+20151223.gitfa8646d.1-2build1
libsasl2-2	2.1.27+dfsg-2
libsasl2-modules	2.1.27+dfsg-2
libsasl2-modules-db	2.1.27+dfsg-2
libseccomp2	2.5.1-1ubuntu1~20.04.1
libsecret-1-0	0.20.4-0ubuntu1
libsecret-common	0.20.4-0ubuntu1
libselinux1	3.0-1build2
libsemanage-common	3.0-1build2
libsemanage1	3.0-1build2
libsensors-config	1:3.6.0-2ubuntu1
libsensors4-dev	1:3.6.0-2ubuntu1
libsensors5	1:3.6.0-2ubuntu1
libsepol1	3.0-1
libsgutils2-2	1.44-1ubuntu2
libsigsegv2	2.12-2
libslang2	2.3.2-4
libsm6	2:1.2.3-1
libsmartcols1	2.34-0.1ubuntu9.1
libsmbios-c2	2.4.3-1
libsnappy1v5	1.1.8-1build1
libsndfile1	1.0.28-7ubuntu0.1
libsnmp-base	5.8+dfsg-2ubuntu2.3

OSS Name	Version
libsnmp-dev	5.8+dfsg-2ubuntu2.3
libsnmp35	5.8+dfsg-2ubuntu2.3
libsodium23	1.0.18-1
libsoup-gnome2.4-1	2.70.0-1
libsoup2.4-1	2.70.0-1
libsqlite3-0	3.31.1-4ubuntu0.2
libss2	1.45.5-2ubuntu1
libssh-4	0.9.3-2ubuntu2.2
libssl-dev	1.1.1f-1ubuntu2.8
libssl1.1	1.1.1f-1ubuntu2.8
libstartup-notification0	0.12-6
libstdc++-9-dev	9.3.0-17ubuntu1~20.04
libstdc++6	10.3.0-1ubuntu1~20.04
libstemmer0d	0+svn585-2
libsystemd0	245.4-4ubuntu3.13
libtasn1-6	4.16.0-2
libtdb1	1.4.2-3build1
libtext-charwidth-perl	0.04-10
libtext-iconv-perl	1.7-7
libtext-wrapi18n-perl	0.06-9
libthai-data	0.1.28-3
libthai0	0.1.28-3
libtiff5	4.1.0+git191117-2ubuntu0.20.04.2
libtinfo6	6.2-0ubuntu2
libtirpc-common	1.2.5-1
libtirpc3	1.2.5-1
libtsan0	10.3.0-1ubuntu1~20.04
libtss2-esys0	2.3.2-1
libubsan1	10.3.0-1ubuntu1~20.04
libuchardet0	0.0.6-3build1
libudev-dev	245.4-4ubuntu3.13
libudev1	245.4-4ubuntu3.13
libudisks2-0	2.8.4-1ubuntu2
libunistring2	0.9.10-2
libunwind8	1.2.1-9build1
libupower-glib3	0.99.11-1build2
liburcu6	0.11.1-2

OSS Name	Version
libusb-1.0-0	2:1.0.23-2build1
libusbmuxd6	2.0.1-2
libutempter0	1.1.6-4
libuuid1	2.34-0.1ubuntu9.1
libuv1	1.34.2-1ubuntu1.3
libvdpau1	1.3-1ubuntu2
libvolume-key1	0.3.12-3.1
libvorbis0a	1.3.6-2ubuntu1
libvorbisenc2	1.3.6-2ubuntu1
libvorbisfile3	1.3.6-2ubuntu1
libvulkan1	1.2.131.2-1
libwacom-common	1.3-2ubuntu3
libwacom2	1.3-2ubuntu3
libwayland-client0	1.18.0-1
libwayland-cursor0	1.18.0-1
libwayland-egl1	1.18.0-1
libwayland-server0	1.18.0-1
libwebkit2gtk-4.0-37	2.32.4-0ubuntu0.20.04.1
libwebp6	0.6.1-2ubuntu0.20.04.1
libwebpdemux2	0.6.1-2ubuntu0.20.04.1
libwind0-heimdal	7.7.0+dfsg-1ubuntu1
libwoff1	1.0.2-1build2
libwrap0	7.6.q-30
libwrap0-dev	7.6.q-30
libx11-6	2:1.6.9-2ubuntu1.2
libx11-data	2:1.6.9-2ubuntu1.2
libx11-xcb1	2:1.6.9-2ubuntu1.2
libxau6	1:1.0.9-0ubuntu1
libxaw7	2:1.0.13-1
libxcb-dri2-0	1.14-2
libxcb-dri3-0	1.14-2
libxcb-glx0	1.14-2
libxcb-present0	1.14-2
libxcb-randr0	1.14-2
libxcb-render0	1.14-2
libxcb-res0	1.14-2
libxcb-shm0	1.14-2

OSS Name	Version
libxcb-sync1	1.14-2
libxcb-util1	0.4.0-0ubuntu3
libxcb-xfixes0	1.14-2
libxcb-xkb1	1.14-2
libxcb1	1.14-2
libxcomposite1	1:0.4.5-1
libxcursor1	1:1.2.0-2
libxdamage1	1:1.1.5-2
libxdmcp6	1:1.1.3-0ubuntu1
libxext6	2:1.3.4-0ubuntu1
libxfixes3	1:5.0.3-2
libxfont2	1:2.0.3-1
libxft2	2.3.3-0ubuntu1
libxi6	2:1.7.10-0ubuntu1
libxinerama1	2:1.1.4-2
libxkbcommon-x11-0	0.10.0-1
libxkbcommon0	0.10.0-1
libxkbfile1	1:1.1.0-1
libxml2	2.9.10+dfsg-5ubuntu0.20.04.1
libxmlb1	0.1.15-2ubuntu1~20.04.1
libxmlsec1	1.2.28-2
libxmlsec1-openssl	1.2.28-2
libxmu6	2:1.1.3-0ubuntu1
libxmuu1	2:1.1.3-0ubuntu1
libxnvctrl0	495.29.05-0ubuntu1
libxpm4	1:3.5.12-1
libxrandr2	2:1.5.2-0ubuntu1
libxrender1	1:0.9.10-1
libxshmfence1	1.3-1
libxslt1.1	1.1.34-4
libxt6	1:1.1.5-1
libxtables12	1.8.4-3ubuntu2
libxtst6	2:1.2.3-1
libxxf86vm1	1:1.1.4-1build1
libyaml-0-2	0.2.2-1
libzstd1	1.4.4+dfsg-3ubuntu0.1
linux-base	4.5ubuntu3.6

OSS Name	Version
linux-crashdump	5.4.0.89.93
linux-firmware	1.187.19
linux-generic	5.4.0.89.93
linux-headers-5.11.0-37-generic	5.11.0-37.41~20.04.2
linux-headers-5.11.0-37-lowlatency	5.11.0-37.41~20.04.2
linux-headers-5.4.0-81	5.4.0-81.91
linux-headers-5.4.0-81-generic	5.4.0-81.91
linux-headers-5.4.0-89	5.4.0-89.100
linux-headers-5.4.0-89-generic	5.4.0-89.100
linux-headers-generic	5.4.0.89.93
linux-hwe-5.11-headers-5.11.0-37	5.11.0-37.41~20.04.2
linux-hwe-5.11-tools-5.11.0-37	5.11.0-37.41~20.04.2
linux-image-5.11.0-37-generic	5.11.0-37.41~20.04.2
linux-image-5.4.0-81-generic	5.4.0-81.91
linux-image-5.4.0-89-generic	5.4.0-89.100
linux-image-generic	5.4.0.89.93
linux-libc-dev	5.4.0-89.100
linux-modules-5.11.0-37-generic	5.11.0-37.41~20.04.2
linux-modules-5.4.0-81-generic	5.4.0-81.91
linux-modules-5.4.0-89-generic	5.4.0-89.100
linux-modules-extra-5.11.0-37-generic	5.11.0-37.41~20.04.2
linux-modules-extra-5.4.0-81-generic	5.4.0-81.91
linux-modules-extra-5.4.0-89-generic	5.4.0-89.100
linux-tools-5.11.0-37-generic	5.11.0-37.41~20.04.2
linux-tools-5.11.0-37-lowlatency	5.11.0-37.41~20.04.2
linux-tools-5.4.0-89	5.4.0-89.100
linux-tools-5.4.0-89-generic	5.4.0-89.100
linux-tools-common	5.4.0-89.100
linux-tools-generic	5.4.0.89.93
locales	2.31-0ubuntu9.2
login	1:4.8.1-1ubuntu5.20.04.1
logrotate	3.14.0-4ubuntu3
logsave	1.45.5-2ubuntu1
lsb-base	11.1.0ubuntu2
lsb-release	11.1.0ubuntu2
lshw	02.18.85-0.3ubuntu2.20.04.1
lsuf	4.93.2+dfsg-1ubuntu0.20.04.1

OSS Name	Version
ltrace	0.7.3-6.1ubuntu1
lvm2	2.03.07-1ubuntu1
lxd-agent-loader	0.4
lz4	1.9.2-2ubuntu0.20.04.1
m4	1.4.18-4
make	4.2.1-1.2
makedumpfile	1:1.6.7-1ubuntu2.2
man-db	2.9.1-1
manpages	5.05-1
manpages-dev	5.05-1
mawk	1.3.4.20200120-2
mdadm	4.1-5ubuntu1.2
mime-support	3.64ubuntu1
mokutil	0.3.0+1538710437.fb6250f-1
motd-news-config	11ubuntu5.4
mount	2.34-0.1ubuntu9.1
mtr-tiny	0.93-1
multipath-tools	0.8.3-1ubuntu2
mutter	3.36.9-0ubuntu0.20.04.1
mutter-common	3.36.9-0ubuntu0.20.04.1
mysql-common	5.8+1.0.5ubuntu2
nano	4.8-1ubuntu1
ncurses-base	6.2-0ubuntu2
ncurses-bin	6.2-0ubuntu2
ncurses-term	6.2-0ubuntu2
netbase	6.1
netcat-openbsd	1.206-1ubuntu1
netfilter-persistent	1.0.14
netplan.io	0.103-0ubuntu5~20.04.2
networkd-dispatcher	2.1-2~ubuntu20.04.1
nfs-common	1:1.3.4-2.5ubuntu3.4
ntfs-3g	1:2017.3.23AR.3-3ubuntu1.1
nvidia-compute-utils-470	470.57.02-0ubuntu1
nvidia-container-runtime	3.5.0-1
nvidia-container-toolkit	1.5.1-1
nvidia-dkms-470	470.57.02-0ubuntu1
nvidia-docker2	2.6.0-1



OSS Name	Version
nvidia-driver-470	470.57.02-0ubuntu1
nvidia-fabricmanager-470	470.57.02-1
nvidia-kernel-common-470	470.57.02-0ubuntu1
nvidia-kernel-source-470	470.57.02-0ubuntu1
nvidia-modprobe	495.29.05-0ubuntu1
nvidia-settings	495.29.05-0ubuntu1
nvidia-utils-470	470.57.02-0ubuntu1
open-iscsi	2.0.874-7.1ubuntu6.2
open-vm-tools	2:11.3.0-2ubuntu0~ubuntu20.04.2
openipmi	2.0.27-0ubuntu2
openssh-client	1:8.2p1-4ubuntu0.3
openssh-server	1:8.2p1-4ubuntu0.3
openssh-sftp-server	1:8.2p1-4ubuntu0.3
openssl	1.1.1f-1ubuntu2.8
os-prober	1.74ubuntu2
overlayroot	0.45ubuntu1
p11-kit	0.23.20-1ubuntu0.1
p11-kit-modules	0.23.20-1ubuntu0.1
packagekit	1.1.13-2ubuntu1.1
packagekit-tools	1.1.13-2ubuntu1.1
parted	3.3-4ubuntu0.20.04.1
passwd	1:4.8.1-1ubuntu5.20.04.1
pastebinit	1.5.1-1
patch	2.7.6-6
pci.ids	0.0~2020.03.20-1
pciutils	1:3.6.4-1ubuntu0.20.04.1
perl	5.30.0-9ubuntu0.2
perl-base	5.30.0-9ubuntu0.2
perl-modules-5.30	5.30.0-9ubuntu0.2
pigz	2.4-1
pinentry-curses	1.1.0-3build1
pinentry-gnome3	1.1.0-3build1
pkg-config	0.29.1-0ubuntu4
plymouth	0.9.4git20200323-0ubuntu6.2
plymouth-theme-ubuntu-text	0.9.4git20200323-0ubuntu6.2
policykit-1	0.105-26ubuntu1.1
pollinate	4.33-3ubuntu1.20.04.1

OSS Name	Version
popularity-contest	1.69ubuntu1
powermgmt-base	1.36
procps	2:3.3.16-1ubuntu2.3
psmisc	23.3-1
publicsuffix	20200303.0012-1
python-apt-common	2.0.0ubuntu0.20.04.6
python3	3.8.2-0ubuntu2
python3-apport	2.20.11-0ubuntu27.21
python3-apt	2.0.0ubuntu0.20.04.6
python3-attr	19.3.0-2
python3-automat	0.8.0-1ubuntu1
python3-blinker	1.4+dfsg1-0.3ubuntu1
python3-certifi	2019.11.28-1
python3-cffi-backend	1.14.0-1build1
python3-chardet	3.0.4-4build1
python3-click	7.0-3
python3-colorama	0.4.3-1build1
python3-commandnotfound	20.04.4
python3-configobj	5.0.6-4
python3-constantly	15.1.0-1build1
python3-cryptography	2.8-3ubuntu0.1
python3-dbus	1.2.16-1build1
python3-debconf	1.5.73
python3-debian	0.1.36ubuntu1
python3-distro	1.4.0-1
python3-distro-info	0.23ubuntu1
python3-distupgrade	1:20.04.36
python3-distutils	3.8.10-0ubuntu1~20.04
python3-entrypoints	0.3-2ubuntu1
python3-gdbm	3.8.10-0ubuntu1~20.04
python3-gi	3.36.0-1
python3-hamcrest	1.9.0-3
python3-httplib2	0.14.0-1ubuntu1
python3-hyperlink	19.0.0-1
python3-idna	2.8-1
python3-importlib-metadata	1.5.0-1
python3-incremental	16.10.1-3.2

OSS Name	Version
python3-jinja2	2.10.1-2
python3-json-pointer	2.0-0ubuntu1
python3-jsonpatch	1.23-3
python3-jsonschema	3.2.0-0ubuntu2
python3-jwt	1.7.1-2ubuntu2
python3-keyring	18.0.1-2ubuntu1
python3-launchpadlib	1.10.13-1
python3-lazr.restfulclient	0.14.2-2build1
python3-lazr.uri	1.0.3-4build1
python3-lib2to3	3.8.10-0ubuntu1~20.04
python3-markupsafe	1.1.0-1build2
python3-minimal	3.8.2-0ubuntu2
python3-more-itertools	4.2.0-1build1
python3-nacl	1.3.0-5
python3-netifaces	0.10.4-1ubuntu4
python3-newt	0.52.21-4ubuntu2
python3-oauthlib	3.1.0-1ubuntu2
python3-openssl	19.0.0-1build1
python3-pexpect	4.6.0-1build1
python3-pkg-resources	45.2.0-1
python3-problem-report	2.20.11-0ubuntu27.21
python3-ptyprocess	0.6.0-1ubuntu1
python3-pyasn1	0.4.2-3build1
python3-pyasn1-modules	0.2.1-0.2build1
python3-pymacaroons	0.13.0-3
python3-pyrsistent	0.15.5-1build1
python3-requests	2.22.0-2ubuntu1
python3-requests-unixsocket	0.2.0-2
python3-secretstorage	2.3.1-2ubuntu1
python3-serial	3.4-5.1
python3-service-identity	18.1.0-5build1
python3-setuptools	45.2.0-1
python3-simplejson	3.16.0-2ubuntu2
python3-six	1.14.0-2
python3-software-properties	0.98.9.5
python3-systemd	234-3build2
python3-twisted	18.9.0-11ubuntu0.20.04.1

OSS Name	Version
python3-twisted-bin	18.9.0-1ubuntu0.20.04.1
python3-update-manager	1:20.04.10.9
python3-urllib3	1.25.8-2ubuntu0.1
python3-wadllib	1.3.3-3build1
python3-xkit	0.5.0ubuntu4
python3-yaml	5.3.1-1ubuntu0.1
python3-zipp	1.0.0-1
python3-zope.interface	4.7.1-1
python3.8	3.8.10-0ubuntu1~20.04.1
python3.8-minimal	3.8.10-0ubuntu1~20.04.1
readline-common	8.0-4
rpcbind	1.2.5-8
rsync	3.1.3-8
rsyslog	8.2001.0-1ubuntu1.1
run-one	1.17-0ubuntu1
sbsigntool	0.9.2-2ubuntu1
screen	4.8.0-1ubuntu0.1
screen-resolution-extra	0.18build1
secureboot-db	1.5
sed	4.7-1
sensible-utils	0.0.12+nmu1
sg3-utils	1.44-1ubuntu2
sg3-utils-udev	1.44-1ubuntu2
shared-mime-info	1.15-1
shim-signed	1.40.7+15.4-0ubuntu9
slirp4netns	0.4.3-1
smartmontools	7.1-1build1
snapd	2.51.1+20.04ubuntu2
software-properties-common	0.98.9.5
sosreport	4.1-1ubuntu0.20.04.3
sound-theme-freedesktop	0.8-2ubuntu1
squashfs-tools	1:4.4-1ubuntu0.3
ssh-import-id	5.10-0ubuntu1
strace	5.5-3ubuntu1
sudo	1.8.31-1ubuntu1.2
systemd	245.4-4ubuntu3.13
systemd-sysv	245.4-4ubuntu3.13

OSS Name	Version
systemd-timesyncd	245.4-4ubuntu3.13
sysvinit-utils	2.96-2.1ubuntu1
tar	1.30+dfsg-7ubuntu0.20.04.1
tcpdump	4.9.3-4
telnet	0.17-41.2build1
thermald	1.9.1-1ubuntu0.6
thin-provisioning-tools	0.8.5-4build1
time	1.7-25.1build1
tmux	3.0a-2ubuntu0.3
tpm-udev	0.4
tzdata	2021a-2ubuntu0.20.04
ubuntu-advantage-tools	27.2.2~20.04.1
ubuntu-keyring	2020.02.11.4
ubuntu-minimal	1.450.2
ubuntu-mono	19.04-0ubuntu3
ubuntu-release-upgrader-core	1:20.04.36
ubuntu-server	1.450.2
ubuntu-standard	1.450.2
ubuntu-wallpapers	20.04.2-0ubuntu1
ubuntu-wallpapers-focal	20.04.2-0ubuntu1
ucf	3.0038+nmu1
udev	245.4-4ubuntu3.13
udisks2	2.8.4-1ubuntu2
ufw	0.36-6
unattended-upgrades	2.3ubuntu0.1
unzip	6.0-25ubuntu1
update-manager-core	1:20.04.10.9
update-notifier-common	3.192.30.9
upower	0.99.11-1build2
usb.ids	2020.03.19-1
usbmuxd	1.1.1~git20191130.9af2b12-1
usbutils	1:012-2
util-linux	2.34-0.1ubuntu9.1
uuid-runtime	2.34-0.1ubuntu9.1
vim	2:8.1.2269-1ubuntu5.3
vim-common	2:8.1.2269-1ubuntu5.3
vim-runtime	2:8.1.2269-1ubuntu5.3

OSS Name	Version
vim-tiny	2:8.1.2269-1ubuntu5.3
wget	1.20.3-1ubuntu1
whiptail	0.52.21-4ubuntu2
wireless-regdb	2021.08.28-0ubuntu1~20.04.1
x11-common	1:7.7+19ubuntu14
x11-xkb-utils	7.7+5
x11-xserver-utils	7.7+8
xauth	1:1.1-0ubuntu1
xdg-dbus-proxy	0.1.2-1
xdg-user-dirs	0.17-2ubuntu1
xfspgrog	5.3.0-1ubuntu2
xkb-data	2.29-2
xserver-common	2:1.20.11-1ubuntu1~20.04.2
xserver-xorg-core	2:1.20.11-1ubuntu1~20.04.2
xserver-xorg-video-nvidia-470	470.57.02-0ubuntu1
xxd	2:8.1.2269-1ubuntu5.3
xz-utils	5.2.4-1ubuntu1
zenity	3.32.0-5
zenity-common	3.32.0-5
zerofree	1.1.1-1
zlib1g	1:1.2.11.dfsg-2ubuntu1.2
zlib1g-dev	1:1.2.11.dfsg-2ubuntu1.2

## List of softwares related to prometheus

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Name	Version
Prometheus	v2.30.1
alertmanager	0.23.0
node exporter	1.2.2
snmp exporter	0.20.0
ipmi exporter	v1.4.0
mtail	v3.0.0-rc47

## List of drivers not included in ubuntu

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Name	Version
nvidia-persistenced	470.74
dcgm	2.2.9
dcgm-exporter	2.2.9-2.5.0

## List of pre-installed NGC catalog containers

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Name	Version
PyTorch	21.09-py3
TensorFlow	21.09-tf2-py3
MxNet	21.09-py3

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           configure
           depcomp
           doc/Makefile.in
           install-sh
           ltmain.sh
           m4/libtool.m4
           m4/ltoptions.m4
           m4/ltsugar.m4
           m4/ltversion.m4
           m4/lt~obsolete.m4
           man/Makefile.in
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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```

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Version 3.1, 31 March 2009

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```
# 7. Database Ownership
#
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This version tidied and debugged by Steve Underwood May 1999

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

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Python was created in the early 1990s by Guido van Rossum at Stichting  
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 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  
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In May 2000, Guido and the Python core development team moved to  
 BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
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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
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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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 and above	2.1.1	2001-now	PSF	yes

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Last updated: July 24, 2019

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THE TOU IS A CONTRACT BETWEEN YOU AND NVIDIA CORPORATION ("NVIDIA"). By registering for NGC or using NGC, you are affirming that you have read, understand, and agree to be bound to the TOU terms. PLEASE ALSO NOTE THE BINDING ARBITRATION AND CLASS ACTION/JURY TRIAL WAIVER SECTION BELOW AS IT AFFECTS HOW DISPUTES WILL BE HANDLED.

The TOU can be accepted only by an adult of legal age of majority in the country in which NGC is used.

If you are entering into the TOU on behalf of a company or other legal entity, you represent that you have the legal authority to bind the entity to the TOU, in which case "you" will mean the entity you represent.

If you do not agree to and accept the TOU, do not use (or register for) NGC or install any associated software or materials.

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- (i) you may pull Containers and Models to any computer, in connection with the grants in subsections 1(a)(ii), 1(a)(iii), 1(a)(iv) and 1(a)(v) immediately below,
- (ii) you may execute Containers and Models in PC and workstation computers having compatible versions of NVIDIA hardware products with Pascal or later NVIDIA GPUs, except for those Containers and Models that include content provided in the DRIVE Constellation area of NGC,
- (iii) you may execute Containers and Models in servers having compatible versions of NVIDIA Tesla or Quadro hardware products with Pascal or later NVIDIA GPUs, except for those Containers and Models that include content provided in the DRIVE Constellation area of NGC,
- (iv) you may execute Containers and Models that include content provided in the DRIVE Constellation area of NGC in NVIDIA DRIVE Constellation products, and
- (v) you may develop new software and materials which combine Containers and Models provided under this section and other content, subject to the continued compliance with the terms applicable to Containers and Models provided under this section.

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b. Downloadable Software Tools. For software and materials made available to you for download, but expressly excluding Containers and Models ("Downloadable Software Tools"), access and use of Downloadable Software Tools under the license grant above is permitted as follows: you may install and use the Downloadable Software Tools in any computer for use (as applicable) with NGC functionality and NGC software and materials.

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b. Enterprise and Academic Use. You may allow employees and contractors of your entity or of your subsidiaries to access and use NGC from your secure network to perform work on your behalf. If you are an academic institution you may allow users enrolled or employed by the academic institution to access and use NGC from your secure network. You are responsible for the compliance with the terms of the TOU by your authorized users. If you become aware that your authorized users didn't follow the terms of these terms, you agree to take reasonable steps to resolve the non-compliance and prevent new occurrences.

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d. Account and Password. You shall keep confidential and not share with any other person your NVIDIA account username, password or API keys. You are solely responsible for maintaining the security of your account, and NVIDIA will not be liable for any loss or damages from your failure to secure your account, password or APIs. You are solely responsible for any activity (whether authorized by you or not) occurring from the use of your account, password or APIs. You agree to notify NVIDIA's team at [ngcsupport@nvidia.com](mailto:ngcsupport@nvidia.com) immediately of any known unauthorized use of your account, password or APIs.

e. Restrictions.

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You shall use NGC and User Content on NGC exclusively for authorized and legal purposes, consistent with all applicable laws, regulations and the rights of others.

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Except as expressly provided in the TOU or the terms associated with Containers and Models, you may not copy, sell, rent, sublicense, transfer, distribute, modify, create derivative works of any portion of NGC, including (without limitation) in

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You may not access or use NGC in a way intended to avoid incurring fees or exceeding use limits or quotas.

Further, unless you have entered into a critical applications agreement with NVIDIA, you shall not use NGC with any system or application where the use or failure of such system or application can reasonably be expected to threaten or result in personal injury, death, or catastrophic loss including, without limitation, use in connection with any nuclear, avionics, navigation, military, medical, or life support or other life critical application ("Critical Applications"). You acknowledge that NVIDIA does not design, test, manufacture or certify NGC or Containers and Models for use in the context of a Critical Application and NVIDIA shall not be liable to you or any third party, in whole or in part, for any claims or damages arising from such use.

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#### 8. GOVERNING LAW AND YOUR RIGHTS

The TOU gives you specific legal rights. You may also have other rights which vary from state to state and jurisdiction to jurisdiction. You hereby agree to all terms of the TOU in the English language. The TOU will be governed by and construed under the laws of the State of Delaware and the United States without regard to the conflicts of law provisions thereof and without regard to the United Nations Convention on Contracts for the International Sale of Goods.

#### 9. BINDING ARBITRATION

In the event of any claim against or dispute or controversy with NVIDIA relating to the TOU or that may arise from it or out of your use of NGC (collectively, "Disputes"), you agree to first contact NVIDIA by U.S. Mail at NVIDIA Corporation, ATTN: Legal, 2788 San Tomas Expressway, Santa Clara, California, 95051 and attempt to resolve the Dispute with NVIDIA informally. In the unlikely event that NVIDIA has not been able to resolve such Dispute it has with you within 60 days of your original informal claim (or sooner if, in NVIDIA's opinion, a Dispute is not likely to be resolved within 60 days), you and NVIDIA each agree to resolve any such Dispute (excluding any NVIDIA claims for injunctive or other equitable relief) by binding arbitration before an arbitrator from Judicial Mediation and Arbitration Services ("JAMS") located in Santa Clara County, California under the Optional Expedited Arbitration Procedures then in effect for JAMS, except as provided herein. JAMS may be contacted at [www.jamsadr.com](http://www.jamsadr.com). The arbitration will be conducted in Santa Clara County, California (or the nearest JAMS Office to Santa Clara County), unless you request an in-person hearing in your hometown or you and NVIDIA agree otherwise. Nothing in this section shall prevent either party from seeking injunctive or other equitable relief from the courts as necessary to prevent the actual or threatened infringement, misappropriation, or violation of that party's data security, intellectual property rights, confidentiality rights, or other proprietary rights. If for any reason this agreement to arbitrate is found not to apply to a Dispute and as a result a Dispute proceeds in court rather than in arbitration, the dispute shall be exclusively brought in state or federal court in Santa Clara County, California.

**Class Action & Jury Trial Waiver.** ALL CLAIMS MUST BE BROUGHT IN THE PARTIES' INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTATIVE PROCEEDING. THIS WAIVER APPLIES TO CLASS ARBITRATION UNLESS SUCH ARBITRATION IS NECESSARY TO EFFECTUATE THE ENFORCEMENT OF THE COURT CLASS ACTION WAIVER OR IN THE EVENT THAT CLASS ARBITRATION IS EXPRESSLY AGREED TO BY NVIDIA. YOU AGREE THAT, BY ENTERING INTO THE TOU, YOU AND NVIDIA ARE EACH WAIVING THE RIGHT TO A TRIAL BY JURY OR TO PARTICIPATE IN A CLASS ACTION.

**Right to Opt Out.** YOU MAY OPT OUT OF THE FOREGOING ARBITRATION AND CLASS ACTION/ JURY TRIAL WAIVER PROVISION OF THE TOU BY NOTIFYING NVIDIA IN WRITING WITHIN 30 DAYS OF COMMENCEMENT OF USE OF NGC UNDER THE TOU. SUCH WRITTEN NOTIFICATION MUST BE SENT TO ATTN: LEGAL, 2788 SAN TOMAS EXPRESSWAY, SANTA CLARA, CALIFORNIA, 95051 AND MUST INCLUDE (1) YOUR NAME, (2) YOUR ADDRESS, (3) THE REFERENCE TO NGC AS THE SERVICE THE NOTICE RELATES TO, AND (4) A CLEAR STATEMENT INDICATING THAT YOU DO NOT WISH TO RESOLVE DISPUTES THROUGH ARBITRATION AND DEMONSTRATING COMPLIANCE WITH THE 30 DAY TIME LIMIT TO OPT OUT.

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If any provision of the TOU is deemed invalid by a court of competent jurisdiction, the invalidity of such provision shall not affect the validity of the remaining provisions of the TOU, which shall remain in full force and effect.

No waiver of any term of the TOU shall be deemed a further or continuing waiver of such term or any other term, and NVIDIA's failure to assert any right or provision under the TOU shall not constitute a waiver of such right or provision.

NVIDIA may make changes to the TOU from time to time. NVIDIA will publish the new TOU at <https://ngc.nvidia.com/legal/terms>. Updated versions of the NVIDIA privacy policy and NVIDIA account terms will be posted on the applicable NVIDIA website. The updated TOU terms will be effective when published. Please review NGC terms of use on a regular basis. You understand and agree that your express acceptance of the updated terms of use or your use of NGC after the date of publication shall constitute your agreement to the updated NGC terms of use. If you do not agree with the updated terms, you must terminate your use of NGC.

- **NVIDIA Driver**  
**END USER LICENSE AGREEMENTS (EULA)**





# End User License Agreements (EULA)

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# Preface

The Software License Agreement in [Chapter 1](#) and the Supplement in [Chapter 2](#) contain license terms and conditions that govern the use of NVIDIA software. By accepting this agreement, you agree to comply with all the terms and conditions applicable to the product(s) included herein.

## NVIDIA Driver

### Description

This package contains the operating system driver and fundamental system software components for NVIDIA GPUs.

## NVIDIA CUDA Toolkit

### Description

The NVIDIA CUDA Toolkit provides command-line and graphical tools for building, debugging and optimizing the performance of applications accelerated by NVIDIA GPUs, runtime and math libraries, and documentation including programming guides, user manuals, and API references.

### Default Install Location of CUDA Toolkit

Windows platform:

```
%ProgramFiles%\NVIDIA GPU Computing Toolkit\CUDA\v#.#
```

Linux platform:

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

Mac platform:

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

# NVIDIA CUDA Samples

## Description

This package includes over 100+ CUDA examples that demonstrate various CUDA programming principles, and efficient CUDA implementation of algorithms in specific application domains.

## Default Install Location of CUDA Samples

Windows platform:

```
%ProgramData%\NVIDIA Corporation\CUDA Samples\v#.#
```

Linux platform:

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

and

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

Mac platform:

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

# NVIDIA Nsight Visual Studio Edition (Windows only)

## Description

NVIDIA Nsight Development Platform, Visual Studio Edition is a development environment integrated into Microsoft Visual Studio that provides tools for debugging, profiling, analyzing and optimizing your GPU computing and graphics applications.

## Default Install Location of Nsight Visual Studio Edition

Windows platform:

```
%ProgramFiles(x86)%\NVIDIA Corporation\Nsight Visual Studio Edition #.#
```



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This Agreement can be accepted only by an adult of legal age of majority in the country in which the SDK is used.

If you are entering into this Agreement on behalf of a company or other legal entity, you represent that you have the legal authority to bind the entity to this Agreement, in which case "you" will mean the entity you represent.

If you don't have the required age or authority to accept this Agreement, or if you don't accept all the terms and conditions of this Agreement, do not download, install or use the SDK.

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1. Install and use the SDK,
2. Modify and create derivative works of sample source code delivered in the SDK, and
3. Distribute those portions of the SDK that are identified in this Agreement as distributable, as incorporated in object code format into a software application that meets the distribution requirements indicated in this Agreement.

### 1.1.2. Distribution Requirements

These are the distribution requirements for you to exercise the distribution grant:

1. Your application must have material additional functionality, beyond the included portions of the SDK.
2. The distributable portions of the SDK shall only be accessed by your application.
3. The following notice shall be included in modifications and derivative works of sample source code distributed: "This software contains source code provided by NVIDIA Corporation."
4. Unless a developer tool is identified in this Agreement as distributable, it is delivered for your internal use only.
5. The terms under which you distribute your application must be consistent with the terms of this Agreement, including (without limitation) terms relating to the license grant and license restrictions and protection of NVIDIA's intellectual property rights. Additionally, you agree that you will protect the privacy, security and legal rights of your application users.
6. You agree to notify NVIDIA in writing of any known or suspected distribution or use of the SDK not in compliance with the requirements of this Agreement, and to enforce the terms of your agreements with respect to distributed SDK.

### 1.1.3. Authorized Users

You may allow employees and contractors of your entity or of your subsidiary(ies) to access and use the SDK from your secure network to perform work on your behalf.

If you are an academic institution you may allow users enrolled or employed by the academic institution to access and use the SDK from your secure network.

You are responsible for the compliance with the terms of this Agreement by your authorized users. If you become aware that your authorized users didn't follow the terms of this Agreement, you agree to take reasonable steps to resolve the non-compliance and prevent new occurrences.

### 1.1.4. Pre-Release SDK

The SDK versions identified as alpha, beta, preview or otherwise as pre-release, may not be fully functional, may contain errors or design flaws, and may have reduced or different security, privacy, accessibility, availability, and reliability standards relative to commercial versions of NVIDIA software and materials. Use of a pre-release SDK may result in unexpected results, loss of data, project delays or other unpredictable damage or loss.

You may use a pre-release SDK at your own risk, understanding that pre-release SDKs are not intended for use in production or business-critical systems.

NVIDIA may choose not to make available a commercial version of any pre-release SDK. NVIDIA may also choose to abandon development and terminate the availability of a pre-release SDK at any time without liability.

### 1.1.5. Updates

NVIDIA may, at its option, make available patches, workarounds or other updates to this SDK. Unless the updates are provided with their separate governing terms, they are deemed part of the SDK licensed to you as provided in this Agreement. You agree that the form and content of the SDK that NVIDIA provides may change without prior notice to you. While NVIDIA generally maintains compatibility between versions, NVIDIA may in some cases make changes that introduce incompatibilities in future versions of the SDK.

### 1.1.6. Components Under Other Licenses

The SDK may come bundled with, or otherwise include or be distributed with, NVIDIA or third-party components with separate legal notices or terms as may be described in proprietary notices accompanying the SDK. If and to the extent there is a conflict between the terms in this Agreement and the license terms associated with the component, the license terms associated with the components control only to the extent necessary to resolve the conflict.

Subject to the other terms of this Agreement, you may use the SDK to develop and test applications released under Open Source Initiative (OSI) approved open source software licenses.

### 1.1.7. Reservation of Rights

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## 1.2. Limitations

The following license limitations apply to your use of the SDK:

1. You may not reverse engineer, decompile or disassemble, or remove copyright or other proprietary notices from any portion of the SDK or copies of the SDK.
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6. You acknowledge that the SDK as delivered is not tested or certified by NVIDIA for use in connection with the design, construction, maintenance, and/or operation of any system where the use or failure of such system could result in a situation that threatens the safety of human life or results in catastrophic damages (each, a "Critical Application"). Examples of Critical Applications include use in avionics, navigation, autonomous vehicle applications, ai solutions for automotive products, military, medical, life support or other life critical applications. NVIDIA shall not be liable to you or any third party, in whole or in part, for any claims or damages arising from such uses. You are solely responsible for ensuring that any product or service developed with the SDK as a whole includes sufficient features to comply with all applicable legal and regulatory standards and requirements.
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establishing the right of indemnification) arising out of or related to products or services that use the SDK in or for Critical Applications, and for use of the SDK outside of the scope of this Agreement or not in compliance with its terms.

8. You may not reverse engineer, decompile or disassemble any portion of the output generated using SDK elements for the purpose of translating such output artifacts to target a non-NVIDIA platform.

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1. NVIDIA or its licensors hold all rights, title and interest in and to the SDK and its modifications and derivative works, including their respective intellectual property rights, subject to your rights under [Section 1.3.2](#). This SDK may include software and materials from NVIDIA's licensors, and these licensors are intended third party beneficiaries that may enforce this Agreement with respect to their intellectual property rights.
2. You hold all rights, title and interest in and to your applications and your derivative works of the sample source code delivered in the SDK, including their respective intellectual property rights, subject to NVIDIA's rights under [Section 1.3.1](#).
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## 1.6. Termination

1. This Agreement will continue to apply until terminated by either you or NVIDIA as described below.
2. If you want to terminate this Agreement, you may do so by stopping to use the SDK.
3. NVIDIA may, at any time, terminate this Agreement if:
  - a). (i) you fail to comply with any term of this Agreement and the non-compliance is not fixed within thirty (30) days following notice from NVIDIA (or immediately if you violate NVIDIA's intellectual property rights);
  - b). (ii) you commence or participate in any legal proceeding against NVIDIA with respect to the SDK; or
  - c). (iii) NVIDIA decides to no longer provide the SDK in a country or, in NVIDIA's sole discretion, the continued use of it is no longer commercially viable.
4. Upon any termination of this Agreement, you agree to promptly discontinue use of the SDK and destroy all copies in your possession or control. Your prior distributions in accordance with this Agreement are not affected by the termination of this Agreement. Upon written request, you will certify in writing that you have complied with your commitments under

this section. Upon any termination of this Agreement all provisions survive except for the license grant provisions.

## 1.7. General

If you wish to assign this Agreement or your rights and obligations, including by merger, consolidation, dissolution or operation of law, contact NVIDIA to ask for permission. Any attempted assignment not approved by NVIDIA in writing shall be void and of no effect. NVIDIA may assign, delegate or transfer this Agreement and its rights and obligations, and if to a non-affiliate you will be notified.

You agree to cooperate with NVIDIA and provide reasonably requested information to verify your compliance with this Agreement.

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The state or federal courts residing in Santa Clara County, California shall have exclusive jurisdiction over any dispute or claim arising out of this Agreement. Notwithstanding this, you agree that NVIDIA shall still be allowed to apply for injunctive remedies or an equivalent type of urgent legal relief in any jurisdiction.

If any court of competent jurisdiction determines that any provision of this Agreement is illegal, invalid or unenforceable, such provision will be construed as limited to the extent necessary to be consistent with and fully enforceable under the law and the remaining provisions will remain in full force and effect. Unless otherwise specified, remedies are cumulative.

Each party acknowledges and agrees that the other is an independent contractor in the performance of this Agreement.

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The SDK is subject to United States export laws and regulations. You agree that you will not ship, transfer or export the SDK into any country, or use the SDK in any manner, prohibited by the United States Bureau of Industry and Security or economic sanctions regulations administered by the U.S. Department of Treasury’s Office of Foreign Assets Control (OFAC), or any applicable export laws, restrictions or regulations. These laws include restrictions on

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This Agreement and any exhibits incorporated into this Agreement constitute the entire agreement of the parties with respect to the subject matter of this Agreement and supersede all prior negotiations or documentation exchanged between the parties relating to this SDK license. Any additional and/or conflicting terms on documents issued by you are null, void, and invalid. Any amendment or waiver under this Agreement shall be in writing and signed by representatives of both parties.

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# Chapter 2. CUDA Toolkit Supplement to Software License Agreement for NVIDIA Software Development Kits

The terms in this supplement govern your use of the NVIDIA CUDA Toolkit SDK under the terms of your license agreement (“Agreement”) as modified by this supplement. Capitalized terms used but not defined below have the meaning assigned to them in the Agreement.

This supplement is an exhibit to the Agreement and is incorporated as an integral part of the Agreement. In the event of conflict between the terms in this supplement and the terms in the Agreement, the terms in this supplement govern.

## 2.1. License Scope

The SDK is licensed for you to develop applications only for use in systems with NVIDIA GPUs.

## 2.2. Distribution

The portions of the SDK that are distributable under the Agreement are listed in [Attachment A](#).

## 2.3. Operating Systems

Those portions of the SDK designed exclusively for use on the Linux or FreeBSD operating systems, or other operating systems derived from the source code to these operating systems, may be copied and redistributed for use in accordance with this Agreement, provided that the object code files are not modified in any way (except for unzipping of compressed files).

## 2.4. Audio and Video Encoders and Decoders

You acknowledge and agree that it is your sole responsibility to obtain any additional third-party licenses required to make, have made, use, have used, sell, import, and offer for sale your products or services that include or incorporate any third-party software and content relating to audio and/or video encoders and decoders from, including but not limited to, Microsoft, Thomson, Fraunhofer IIS, Sisvel S.p.A., MPEG-LA, and Coding Technologies. NVIDIA does not grant to you under this Agreement any necessary patent or other rights with respect to any audio and/or video encoders and decoders.

## 2.5. Licensing

If the distribution terms in this Agreement are not suitable for your organization, or for any questions regarding this Agreement, please contact NVIDIA at [nvidia-compute-license-questions@nvidia.com](mailto:nvidia-compute-license-questions@nvidia.com).

## 2.6. Attachment A

The following CUDA Toolkit files may be distributed with Licensee Applications developed by you, including certain variations of these files that have version number or architecture specific information embedded in the file name - as an example only, for release version 9.0 of the 64-bit Windows software, the file `cuda64_90.dll` is redistributable.

Component	CUDA Runtime
Windows	<code>cuda.dll</code> , <code>cuda_static.lib</code> , <code>cudadevrt.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>

<b>Component</b>	<b>CUDA BLAS Library</b>
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
<b>Component</b>	<b>NVIDIA "Drop-in" BLAS Library</b>
Windows	nvblas.dll
Mac OSX	libnvblas.dylib
Linux	libnvblas.so
<b>Component</b>	<b>CUDA Sparse Matrix Library</b>
Windows	cusparses.dll, cusparses.lib
Mac OSX	libcusparses.dylib, libcusparses_static.a
Linux	libcusparses.so, libcusparses_static.a
Android	libcusparses.so, libcusparses_static.a
<b>Component</b>	<b>CUDA Linear Solver Library</b>
Windows	cusolver.dll, cusolver.lib
Mac OSX	libcusolver.dylib, libcusolver_static.a
Linux	libcusolver.so, libcusolver_static.a
Android	libcusolver.so, libcusolver_static.a
<b>Component</b>	<b>CUDA Random Number Generation Library</b>
Windows	curand.dll, curand.lib
Mac OSX	libcurand.dylib, libcurand_static.a
Linux	libcurand.so, libcurand_static.a
Android	libcurand.so, libcurand_static.a
<b>Component</b>	<b>NVIDIA Performance Primitives Library</b>
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
<b>Component</b>	<b>NVIDIA JPEG Library</b>
Windows	nvjpeg.lib, nvjpeg.dll
Linux	libnvjpeg.so, libnvjpeg_static.a
<b>Component</b>	<b>Internal common library required for statically linking to cuBLAS, cuSPARSE, cuFFT, cuRAND, nvJPEG and NPP</b>
Mac OSX	libculibos.a
Linux	libculibos.a
<b>Component</b>	<b>NVIDIA Runtime Compilation Library and Header</b>
All	nVRTC.h
Windows	nVRTC.dll, nVRTC-builtins.dll
Mac OSX	libnVRTC.dylib, libnVRTC-builtins.dylib
Linux	libnVRTC.so, libnVRTC-builtins.so
<b>Component</b>	<b>NVIDIA Optimizing Compiler Library</b>
Windows	nvvm.dll



Mac OSX	libnvvm.dylib
Linux	libnvvm.so
<b>Component</b>	<b>NVIDIA Common Device Math Functions Library</b>
Windows	libdevice.10.bc
Mac OSX	libdevice.10.bc
Linux	libdevice.10.bc
<b>Component</b>	<b>CUDA Occupancy Calculation Header Library</b>
All	cuda_occupancy.h
<b>Component</b>	<b>CUDA Half Precision Headers</b>
All	cuda_fp16.h, cuda_fp16.hpp
<b>Component</b>	<b>CUDA Profiling Tools Interface (CUPTI) Library</b>
Windows	cupti.dll
Mac OSX	libcupti.dylib
Linux	libcupti.so
<b>Component</b>	<b>NVIDIA Tools Extension Library</b>
Windows	nvToolsExt.dll, nvToolsExt.lib
Mac OSX	libnvToolsExt.dylib
Linux	libnvToolsExt.so
<b>Component</b>	<b>NVIDIA CUDA Driver Libraries</b>
Linux	libcuda.so, libnvidia-ptxjitcompiler.so
<b>Component</b>	<b>NVIDIA CUDA File IO Libraries and Header</b>
All	cufile.h
Linux	libcufile.so, libcufile_rdma.so, libcufile_static.a, libcufile_rdma_static.a

The NVIDIA CUDA Driver Libraries are only distributable in applications that meet this criteria:

1. The application was developed starting from a NVIDIA CUDA container obtained from Docker Hub or the NVIDIA GPU Cloud, and
2. The resulting application is packaged as a Docker container and distributed to users on Docker Hub or the NVIDIA GPU Cloud only.

In addition to the rights above, for parties that are developing software intended solely for use on Jetson development kits or Jetson modules, and running Linux for Tegra software, the following shall apply:

- ▶ The SDK may be distributed in its entirety, as provided by NVIDIA, and without separation of its components, for you and/or your licensees to create software development kits for use only on the Jetson platform and running Linux for Tegra software.

## 2.7. Attachment B

### Additional Licensing Obligations

The following third party components included in the SOFTWARE are licensed to Licensee pursuant to the following terms and conditions:

1. Licensee's use of the GDB third party component is subject to the terms and conditions of GNU GPL v3:

```
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Component	License
CUDA-GDB	GPL v3

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In addition, Licensee acknowledges the following notice: Thrust includes source code from the Boost Iterator, Tuple, System, and Random Number libraries.

```
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. . . .
```

```
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4. Licensee's use of the LLVM third party component is subject to the following terms and conditions:

```
=====
LLVM Release License
=====
University of Illinois/NCSA
Open Source License

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Developed by:

    LLVM Team

    University of Illinois at Urbana-Champaign

    http://llvm.org

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```

## DEALINGS WITH THE SOFTWARE.

5. Licensee's use of the PCRE third party component is subject to the following terms and conditions:

-----  
PCRE LICENCE  
-----

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself. The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

-----  
THE BASIC LIBRARY FUNCTIONS  
-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk  
University of Cambridge Computing Service,  
Cambridge, England.  
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-----  
PCRE JUST-IN-TIME COMPILATION SUPPORT  
-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu  
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-----  
STACK-LESS JUST-IN-TIME COMPILER  
-----

Written by: Zoltan Herczeg  
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THE C++ WRAPPER FUNCTIONS  
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