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Version 5.0.0

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Name	Version
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8. MS COCO API

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9. Semaphore implementation in blockingconcurrentqueue.h

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For details, see, [3rdparty/dmlc-core/include/dmlc/blockingconcurrentqueue.h](#)

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10. ONNX Export module

For details, see, [python/mxnet/contrib/onnx/mx2onnx/LICENSE](#)

This module is based on https://github.com/NVIDIA/mxnet_to_onnx/blob/master/mx2onnx_converter/#

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13. FindJeMalloc.cmake
For details, see cmake/Modules/FindJeMalloc.cmake

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14. FindPythonLibsNew.cmake

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

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15. erfinv-inl.h

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

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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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*/

=====
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)
```

=====
19. rang

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apparmor	2.12-4ubuntu5.1
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apt-utils	1.6.12
at	3.1.20-3.1ubuntu2
aufs-tools	1:4.9+20170918-1ubuntu1
base-files	10.1ubuntu2.8
base-passwd	3.5.44
bash	4.4.18-2ubuntu1.2
bash-completion	1:2.8-1ubuntu1
bc	1.07.1-2
bcache-tools	1.0.8-2build1
bind9-host	1:9.11.3+dfsg-1ubuntu1.11
binutils	2.30-21ubuntu1~18.04.3
binutils-common:amd64	2.30-21ubuntu1~18.04.3
binutils-x86-64-linux-gnu	2.30-21ubuntu1~18.04.3
bridge-utils	1.5-15ubuntu1
bsdmainutils	11.1.2ubuntu1
bsdutils	1:2.31.1-0.4ubuntu3.5
btrfs-progs	4.15.1-1build1
btrfs-tools	4.15.1-1build1
build-essential	12.4ubuntu1
busybox-initramfs	1:1.27.2-2ubuntu3.2
busybox-static	1:1.27.2-2ubuntu3.2
byobu	5.125-0ubuntu1
bzip2	1.0.6-8.1ubuntu0.2
ca-certificates	20180409
cachefilesd	0.10.10-0.1ubuntu0.18.04.1
cgroupfs-mount	1.4

OSS Name	Version
cloud-guest-utils	0.30-0ubuntu5
cloud-init	19.4-33-gbb4131a2-0ubuntu1~18.04.1
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	1.2.13-2
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	2:2.0.2-1ubuntu1.1
cryptsetup-bin	2:2.0.2-1ubuntu1.1
curl	7.58.0-2ubuntu3.8
dash	0.5.8-2.10
datacenter-gpu-manager	1:1.7.2
dbus	1.12.2-1ubuntu1.1
debconf	1.5.66ubuntu1
debconf-i18n	1.5.66ubuntu1
debianutils	4.8.4
diffutils	1:3.6-1
dirmngr	2.2.4-1ubuntu1.2
distro-info-data	0.37ubuntu0.6
dmeventd	2:1.02.145-4.1ubuntu3.18.04.2
dmidecode	3.1-1
dmsetup	2:1.02.145-4.1ubuntu3.18.04.2
dns-root-data	2018013001
dnsmasq-base	2.79-1
dnsutils	1:9.11.3+dfsg-1ubuntu1.11
docker-ce	5:19.03.11~3-0~ubuntu-bionic
docker-ce-cli	5:19.03.11~3-0~ubuntu-bionic
dosfstools	4.1-1

OSS Name	Version
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	15-1
eject	2.1.5+deb1+cvs20081104-13.2
ethtool	1:4.15-0ubuntu1
fakeroot	1.22-2ubuntu1
fdisk	2.31.1-0.4ubuntu3.5
file	1:5.32-2ubuntu0.3
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
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:amd64	7.5.0-3ubuntu1~18.04
gcc-8-base:amd64	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:amd64	1.56.1-1
git	1:2.17.1-1ubuntu0.5

OSS Name	Version
git-man	1:2.17.1-1ubuntu0.5
gnupg	2.2.4-1ubuntu1.2
gnupg-l10n	2.2.4-1ubuntu1.2
gnupg-utils	2.2.4-1ubuntu1.2
gpg	2.2.4-1ubuntu1.2
gpg-agent	2.2.4-1ubuntu1.2
gpg-wks-client	2.2.4-1ubuntu1.2
gpg-wks-server	2.2.4-1ubuntu1.2
gpgconf	2.2.4-1ubuntu1.2
gpgsm	2.2.4-1ubuntu1.2
gpgv	2.2.4-1ubuntu1.2
grafana	7.0.3
grep	3.1-2build1
groff-base	1.22.3-10
grub-common	2.02-2ubuntu8.14
grub-efi-amd64	2.02-2ubuntu8.14
grub-efi-amd64-bin	2.02-2ubuntu8.14
grub-efi-amd64-signed	1.93.15+2.02-2ubuntu8.14
grub-legacy-ec2	1:1
grub2-common	2.02-2ubuntu8.14
gzip	1.6-5ubuntu1
hdparm	9.54+ds-1
hostname	3.20
htop	2.1.0-3
info	6.5.0.dfsg.1-2
init	1.51
init-system-helpers	1.51
initramfs-tools	0.130ubuntu3.9
initramfs-tools-bin	0.130ubuntu3.9
initramfs-tools-core	0.130ubuntu3.9
install-info	6.5.0.dfsg.1-2
intel-microcode	3.20191115.1ubuntu0.18.04.2
iproute2	4.15.0-2ubuntu1
iptables	1.6.1-2ubuntu2
iptables-persistent	1.0.4+nmu2ubuntu1
iputils-ping	3:20161105-1ubuntu3
iputils-tracepath	3:20161105-1ubuntu3

OSS Name	Version
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	1:1.6.5-1ubuntu1~18.04.4
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	24-1ubuntu3.2
krb5-locales	1.16-2ubuntu0.1
landscape-common	18.01-0ubuntu3.4
language-selector-common	0.188.3
ledmon	0.90-0ubuntu1~18.04.1
less	487-0.1
libaccountsservice0:amd64	0.6.45-1ubuntu1
libacl1:amd64	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:amd64	2.12-4ubuntu5.1
libapt-inst2.0:amd64	1.6.12
libapt-pkg5.0:amd64	1.6.12
libargon2-0:amd64	0~20161029-1.1
libasan4:amd64	7.5.0-3ubuntu1~18.04
libasn1-8-heimdal:amd64	7.5.0+dfsg-1
libassuan0:amd64	2.5.1-2
libatm1:amd64	1:2.5.1-2build1
libatomic1:amd64	8.4.0-1ubuntu1~18.04
libattr1:amd64	1:2.4.47-2build1
libaudit-common	1:2.8.2-1ubuntu1
libaudit1:amd64	1:2.8.2-1ubuntu1
libbind9-160:amd64	1:9.11.3+dfsg-1ubuntu1.11
libbinutils:amd64	2.30-21ubuntu1~18.04.3

OSS Name	Version
libblkid1:amd64	2.31.1-0.4ubuntu3.5
libbsd0:amd64	0.8.7-1ubuntu0.1
libbz2-1.0:amd64	1.0.6-8.1ubuntu0.2
libc-bin	2.27-3ubuntu1
libc-dev-bin	2.27-3ubuntu1
libc6:amd64	2.27-3ubuntu1
libc6-dev:amd64	2.27-3ubuntu1
libcap-ng0:amd64	0.7.7-3.1
libcap2:amd64	1:2.25-1.2
libcap2-bin	1:2.25-1.2
libcc1-0:amd64	8.4.0-1ubuntu1~18.04
libcilkrts5:amd64	7.5.0-3ubuntu1~18.04
libcom-err2:amd64	1.44.1-1ubuntu1.3
libcryptsetup12:amd64	2:2.0.2-1ubuntu1.1
libcurl3-gnutls:amd64	7.58.0-2ubuntu3.8
libcurl4:amd64	7.58.0-2ubuntu3.8
libdb5.3:amd64	5.3.28-13.1ubuntu1.1
libdbus-1-3:amd64	1.12.2-1ubuntu1.1
libdbus-glib-1-2:amd64	0.110-2
libdebconfclient0:amd64	0.213ubuntu1
libdevmapper-event1.02.1:amd64	2:1.02.145-4.1ubuntu3.18.04.2
libdevmapper1.02.1:amd64	2:1.02.145-4.1ubuntu3.18.04.2
libdns-export1100	1:9.11.3+dfsg-1ubuntu1.11
libdns1100:amd64	1:9.11.3+dfsg-1ubuntu1.11
libdpkg-perl	1.19.0.5ubuntu2.3
libdrm-common	2.4.99-1ubuntu1~18.04.1
libdrm2:amd64	2.4.99-1ubuntu1~18.04.1
libdumbnet1:amd64	1.12-7build1
libdw1:amd64	0.170-0.4ubuntu0.1
libeatmydata1:amd64	105-6
libedit2:amd64	3.1-20170329-1
libefiboot1:amd64	34-1
libefivar1:amd64	34-1
libelf1:amd64	0.170-0.4ubuntu0.1
liberror-perl	0.17025-1
libestr0:amd64	0.1.10-2.1
libevent-2.1-6:amd64	2.1.8-stable-4build1

OSS Name	Version
libexpat1:amd64	2.2.5-3ubuntu0.2
libext2fs2:amd64	1.44.1-1ubuntu1.3
libfakeroot:amd64	1.22-2ubuntu1
libfastjson4:amd64	0.99.8-2
libfdisk1:amd64	2.31.1-0.4ubuntu3.5
libffi6:amd64	3.2.1-8
libfile-fcntllock-perl	0.22-3build2
libfontconfig1:amd64	2.12.6-0ubuntu2
libfreeipmi16	1.4.11-1.1ubuntu4.1
libfreetype6:amd64	2.8.1-2ubuntu2
libfribidi0:amd64	0.19.7-2
libfuse2:amd64	2.9.7-1ubuntu1
libgcc-7-dev:amd64	7.5.0-3ubuntu1~18.04
libgcc1:amd64	1:8.4.0-1ubuntu1~18.04
libgcrypt20:amd64	1.8.1-4ubuntu1.2
libgdbm-compat4:amd64	1.14.1-6
libgdbm5:amd64	1.14.1-6
libgeoip1:amd64	1.6.12-1
libgirepository-1.0-1:amd64	1.56.1-1
libglib2.0-0:amd64	2.56.4-0ubuntu0.18.04.4
libglib2.0-data	2.56.4-0ubuntu0.18.04.4
libgmp10:amd64	2:6.1.2+dfsg-2
libgnutls30:amd64	3.5.18-1ubuntu1.3
libgomp1:amd64	8.4.0-1ubuntu1~18.04
libgpg-error0:amd64	1.27-6
libgpm2:amd64	1.20.7-5
libgssapi-krb5-2:amd64	1.16-2ubuntu0.1
libgssapi3-heimdal:amd64	7.5.0+dfsg-1
libhcrypto4-heimdal:amd64	7.5.0+dfsg-1
libheimbase1-heimdal:amd64	7.5.0+dfsg-1
libheimntlm0-heimdal:amd64	7.5.0+dfsg-1
libhogweed4:amd64	3.4-1
libhx509-5-heimdal:amd64	7.5.0+dfsg-1
libicu60:amd64	60.2-3ubuntu3
libidn11:amd64	1.33-2.1ubuntu1.2
libidn2-0:amd64	2.0.4-1.1ubuntu0.2
libip4tc0:amd64	1.6.1-2ubuntu2

OSS Name	Version
libip6tc0:amd64	1.6.1-2ubuntu2
libipmiconsole2	1.4.11-1.1ubuntu4.1
libipmidetect0	1.4.11-1.1ubuntu4.1
libiptc0:amd64	1.6.1-2ubuntu2
libirs160:amd64	1:9.11.3+dfsg-1ubuntu1.11
libisc-export169:amd64	1:9.11.3+dfsg-1ubuntu1.11
libisc169:amd64	1:9.11.3+dfsg-1ubuntu1.11
libisccc160:amd64	1:9.11.3+dfsg-1ubuntu1.11
libiscfg160:amd64	1:9.11.3+dfsg-1ubuntu1.11
libisl19:amd64	0.19-1
libisns0:amd64	0.97-2build1
libitm1:amd64	8.4.0-1ubuntu1~18.04
libjson-c3:amd64	0.12.1-1.3
libk5crypto3:amd64	1.16-2ubuntu0.1
libkeyutils1:amd64	1.5.9-9.2ubuntu2
libklibc	2.0.4-9ubuntu2
libkmod2:amd64	24-1ubuntu3.2
libkrb5-26-heimdal:amd64	7.5.0+dfsg-1
libkrb5-3:amd64	1.16-2ubuntu0.1
libkrb5support0:amd64	1.16-2ubuntu0.1
libksba8:amd64	1.3.5-2
libldap-2.4-2:amd64	2.4.45+dfsg-1ubuntu1.4
libldap-common	2.4.45+dfsg-1ubuntu1.4
liblocale-gettext-perl	1.07-3build2
liblsan0:amd64	8.4.0-1ubuntu1~18.04
libltdl7:amd64	2.4.6-2
liblvm2app2.2:amd64	2.02.176-4.1ubuntu3.18.04.2
liblvm2cmd2.02:amd64	2.02.176-4.1ubuntu3.18.04.2
liblwres160:amd64	1:9.11.3+dfsg-1ubuntu1.11
liblxc-common	3.0.3-0ubuntu1~18.04.1
liblxc1	3.0.3-0ubuntu1~18.04.1
liblz4-1:amd64	0.0~r131-2ubuntu3
liblzma5:amd64	5.2.2-1.3
liblzo2-2:amd64	2.08-1.2
libmagic-mgc	1:5.32-2ubuntu0.3
libmagic1:amd64	1:5.32-2ubuntu0.3
libmnl0:amd64	1.0.4-2

OSS Name	Version
libmount1:amd64	2.31.1-0.4ubuntu3.5
libmpc3:amd64	1.1.0-1
libmpdec2:amd64	2.4.2-1ubuntu1
libmpfr6:amd64	4.0.1-1
libmpx2:amd64	8.4.0-1ubuntu1~18.04
libmspack0:amd64	0.6-3ubuntu0.3
libncurses5:amd64	6.1-1ubuntu1.18.04
libncursesw5:amd64	6.1-1ubuntu1.18.04
libnetfilter-conntrack3:amd64	1.0.6-2
libnettle6:amd64	3.4-1
libnewt0.52:amd64	0.52.20-1ubuntu1
libnfnetwork0:amd64	1.0.1-3
libnfsidmap2:amd64	0.25-5.1
libnghttp2-14:amd64	1.30.0-1ubuntu1
libnih1:amd64	1.0.3-6ubuntu2
libnl-3-200:amd64	3.2.29-0ubuntu3
libnl-genl-3-200:amd64	3.2.29-0ubuntu3
libnpt0:amd64	1.5-3
libnss-systemd:amd64	237-3ubuntu10.33
libntfs-3g88	1:2017.3.23-2ubuntu0.18.04.2
libnuma1:amd64	2.0.11-2.1ubuntu0.1
libnvidia-container-tools	1.1.1-1
libnvidia-container1:amd64	1.1.1-1
libopenipmi0	2.0.22-1.1ubuntu2.1
libp11-kit0:amd64	0.23.9-2
libpam-cap:amd64	1:2.25-1.2
libpam-modules:amd64	1.1.8-3.6ubuntu2.18.04.1
libpam-modules-bin	1.1.8-3.6ubuntu2.18.04.1
libpam-runtime	1.1.8-3.6ubuntu2.18.04.1
libpam-systemd:amd64	237-3ubuntu10.33
libpam0g:amd64	1.1.8-3.6ubuntu2.18.04.1
libparted2:amd64	3.2-20ubuntu0.2
libpcap0.8:amd64	1.8.1-6ubuntu1.18.04.1
libpci-dev	1:3.5.2-1ubuntu1.1
libpci3:amd64	1:3.5.2-1ubuntu1.1
libpcre3:amd64	2:8.39-9
libperl5.26:amd64	5.26.1-6ubuntu0.3

OSS Name	Version
libpipeline1:amd64	1.5.0-1
libplymouth4:amd64	0.9.3-1ubuntu7.18.04.2
libpng16-16:amd64	1.6.34-1ubuntu0.18.04.2
libpolkit-agent-1-0:amd64	0.105-20ubuntu0.18.04.5
libpolkit-backend-1-0:amd64	0.105-20ubuntu0.18.04.5
libpolkit-gobject-1-0:amd64	0.105-20ubuntu0.18.04.5
libpopt0:amd64	1.16-11
libprocps6:amd64	2:3.3.12-3ubuntu1.2
libpsl5:amd64	0.19.1-5build1
libpython3-stdlib:amd64	3.6.7-1~18.04
libpython3.6:amd64	3.6.9-1~18.04
libpython3.6-minimal:amd64	3.6.9-1~18.04
libpython3.6-stdlib:amd64	3.6.9-1~18.04
libquadmath0:amd64	8.4.0-1ubuntu1~18.04
libreadline5:amd64	5.2+dfsg-3build1
libreadline7:amd64	7.0-3
libroken18-heimdal:amd64	7.5.0+dfsg-1
librtmp1:amd64	2.4+20151223.gitfa8646d.1-1
libsasl2-2:amd64	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libsasl2-modules:amd64	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libsasl2-modules-db:amd64	2.1.27~101-g0780600+dfsg-3ubuntu2.1
libseccomp2:amd64	2.4.1-0ubuntu0.18.04.2
libselinux1:amd64	2.7-2build2
libsemanage1:amd64	2.7-2build2
libsemanage-common	2.7-2build2
libsensors4:amd64	1:3.4.0-4
libsensors4-dev	1:3.4.0-4
libsepol1:amd64	2.7-1
libsgutils2-2	1.42-2ubuntu1.18.04.2
libsigsegv2:amd64	2.12-1
libslang2:amd64	2.3.1a-3ubuntu1
libsmartcols1:amd64	2.31.1-0.4ubuntu3.5
libsnappy1v5:amd64	1.1.7-1
libsnmp-base	5.7.3+dfsg-1.8ubuntu3.3
libsnmp-dev	5.7.3+dfsg-1.8ubuntu3.3
libsnmp30:amd64	5.7.3+dfsg-1.8ubuntu3.3
libsqlite3-0:amd64	3.22.0-1ubuntu0.2

OSS Name	Version
libss2:amd64	1.44.1-1ubuntu1.3
libssl-dev:amd64	1.1.1-1ubuntu2.1~18.04.6
libssl1.0.0:amd64	1.0.2n-1ubuntu5.3
libssl1.1:amd64	1.1.1-1ubuntu2.1~18.04.6
libstdc++-7-dev:amd64	7.5.0-3ubuntu1~18.04
libstdc++6:amd64	8.4.0-1ubuntu1~18.04
libsystemd0:amd64	237-3ubuntu10.33
libtasn1-6:amd64	4.13-2
libtext-charwidth-perl	0.04-7.1
libtext-iconv-perl	1.7-5build6
libtext-wrapi18n-perl	0.06-7.1
libtinfo5:amd64	6.1-1ubuntu1.18.04
libtirpc1:amd64	0.2.5-1.2ubuntu0.1
libtsan0:amd64	8.4.0-1ubuntu1~18.04
libubsan0:amd64	7.5.0-3ubuntu1~18.04
libudev-dev:amd64	237-3ubuntu10.41
libudev1:amd64	237-3ubuntu10.41
libunistring2:amd64	0.9.9-0ubuntu2
libunwind8:amd64	1.2.1-8
libusb-1.0-0:amd64	2:1.0.21-2
libutempter0:amd64	1.1.6-3
libuuid1:amd64	2.31.1-0.4ubuntu3.5
libuv1:amd64	1.18.0-3
libwind0-heimdal:amd64	7.5.0+dfsg-1
libwrap0:amd64	7.6.q-27
libwrap0-dev:amd64	7.6.q-27
libx11-6:amd64	2:1.6.4-3ubuntu0.2
libx11-data	2:1.6.4-3ubuntu0.2
libxau6:amd64	1:1.0.8-1
libxcb1:amd64	1.13-2~ubuntu18.04
libxdmcp6:amd64	1:1.1.2-3
libxext6:amd64	2:1.3.3-1
libxml2:amd64	2.9.4+dfsg1-6.1ubuntu1.2
libxmlsec1:amd64	1.2.25-1build1
libxmlsec1-openssl:amd64	1.2.25-1build1
libxmuu1:amd64	2:1.1.2-2
libxslt1.1:amd64	1.1.29-5ubuntu0.2

OSS Name	Version
libxtables12:amd64	1.6.1-2ubuntu2
libyaml-0-2:amd64	0.1.7-2ubuntu3
libzstd1:amd64	1.3.3+dfsg-2ubuntu1.1
linux-base	4.5ubuntu1
linux-crashdump	4.15.0.106.94
linux-firmware	1.173.14
linux-generic	4.15.0.76.78
linux-headers-4.15.0-76	4.15.0-76.86
linux-headers-4.15.0-76-generic	4.15.0-76.86
linux-headers-generic	4.15.0.76.78
linux-image-4.15.0-76-generic	4.15.0-76.86
linux-image-generic	4.15.0.76.78
linux-libc-dev:amd64	4.15.0-106.107
linux-modules-4.15.0-76-generic	4.15.0-76.86
linux-modules-extra-4.15.0-76-generic	4.15.0-76.86
locales	2.27-3ubuntu1
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	2.02.176-4.1ubuntu3.18.04.2
lxcfs	3.0.3-0ubuntu1~18.04.1
lxd	3.0.3-0ubuntu1~18.04.1
lxd-client	3.0.3-0ubuntu1~18.04.1
make	4.1-9.1ubuntu1
makedumpfile	1:1.6.5-1ubuntu1~18.04.4
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
mlocate	0.26-2ubuntu3.1
mokutil	0.3.0+1538710437.fb6250f-0ubuntu2~18.04.1

OSS Name	Version
mount	2.31.1-0.4ubuntu3.5
mtr-tiny	0.92-1
multiarch-support	2.27-3ubuntu1
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	0.98-0ubuntu1~18.04.1
networkd-dispatcher	1.7-0ubuntu3.3
nfs-common	1:1.3.4-2.1ubuntu5.2
nplan	0.98-0ubuntu1~18.04.1
ntfs-3g	1:2017.3.23-2ubuntu0.18.04.2
nvidia-container-toolkit	1.1.2-1
open-iscsi	2.0.874-5ubuntu2.7
open-vm-tools	2:11.0.1-2ubuntu0.18.04.2
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	1.1.1-1ubuntu2.1~18.04.5
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	5.26.1-6ubuntu0.3
perl-base	5.26.1-6ubuntu0.3
perl-modules-5.26	5.26.1-6ubuntu0.3
pigz	2.4-1
pinentry-curses	1.1.0-1
plymouth	0.9.3-1ubuntu7.18.04.2

OSS Name	Version
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	1.6.5ubuntu0.2
python3	3.6.7-1~18.04
python3-apport	2.20.9-0ubuntu7.9
python3-apt	1.6.5ubuntu0.2
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	2.1.4-1ubuntu1.3
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	1:18.04.37
python3-gdbm:amd64	3.6.9-1~18.04
python3-gi	3.26.1-2ubuntu1
python3-httpplib2	0.9.2+dfsg-1ubuntu0.1
python3-hyperlink	17.3.1-2
python3-idna	2.6-1
python3-incremental	16.10.1-3
python3-jinja2	2.10-1ubuntu0.18.04.1

OSS Name	Version
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:amd64	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	2.20.9-0ubuntu7.9
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	0.96.24.32.12
python3-systemd	234-1build1
python3-twisted	17.9.0-2
python3-twisted-bin:amd64	17.9.0-2
python3-update-manager	1:18.04.11.10
python3-urllib3	1.22-1ubuntu0.18.04.1
python3-yaml	3.12-1build2
python3-zope.interface	4.3.2-1build2
python3.6	3.6.9-1~18.04
python3.6-minimal	3.6.9-1~18.04
readline-common	7.0-3
rpcbind	0.2.3-0.6
rsync	3.1.2-2.1ubuntu1
rsyslog	8.32.0-1ubuntu4
run-one	1.17-0ubuntu1
sbsigntool	0.6-3.2ubuntu2
screen	4.6.2-1ubuntu1

OSS Name	Version
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+1533136590.3beb971-0ubuntu1
shim-signed	1.37~18.04.3+15+1533136590.3beb971-0ubuntu1
smartmontools	6.5+svn4324-1
snapd	2.42.1+18.04
software-properties-common	0.96.24.32.12
sosreport	3.6-1ubuntu0.18.04.4
squashfs-tools	1:4.3-6ubuntu0.18.04.1
ssh-import-id	5.7-0ubuntu1.1
strace	4.21-1ubuntu1
sudo	1.8.21p2-3ubuntu1.2
systemd	237-3ubuntu10.33
systemd-sysv	237-3ubuntu10.33
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	2019c-0ubuntu0.18.04
ubuntu-advantage-tools	17
ubuntu-keyring	2018.09.18.1~18.04.0
ubuntu-minimal	1.417.4
ubuntu-release-upgrader-core	1:18.04.37
ubuntu-server	1.417.4
ubuntu-standard	1.417.4
ucf	3.0038
udev	237-3ubuntu10.41
ufw	0.36-0ubuntu0.18.04.1
uidmap	1:4.5-1ubuntu2
unattended-upgrades	1.1ubuntu1.18.04.13
unzip	6.0-21ubuntu1
update-manager-core	1:18.04.11.10

OSS Name	Version
update-notifier-common	3.192.1.7
ureadahead	0.100.0-21
usbutils	1:007-4build1
util-linux	2.31.1-0.4ubuntu3.5
uuid-runtime	2.31.1-0.4ubuntu3.5
vim	2:8.0.1453-1ubuntu1.1
vim-common	2:8.0.1453-1ubuntu1.1
vim-runtime	2:8.0.1453-1ubuntu1.1
vim-tiny	2:8.0.1453-1ubuntu1.1
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	2:8.0.1453-1ubuntu1.1
xz-utils	5.2.2-1.3
zerofree	1.0.4-1
zlib1g:amd64	1:1.2.11.dfsg-0ubuntu2
zlib1g-dev:amd64	1:1.2.11.dfsg-0ubuntu2

Appendix

The terms and conditions of the licenses for the following NVIDIA products are described here.

- Tesla Driver for Linux x64 440.64.00
END USER LICENSE AGREEMENTS (EULA)
- cuDNN 8.0.1
NVIDIA SOFTWARE LICENSE AGREEMENT



END USER LICENSE AGREEMENTS (EULA)

DR-06739-001_v01_v11.0 | June 2020



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 #.#
```


Chapter 1.

LICENSE AGREEMENT FOR NVIDIA SOFTWARE DEVELOPMENT KITS

Release date: January 28, 2020

Important Notice—Read before downloading, installing, copying or using the licensed software:

This license agreement, including exhibits attached ("Agreement") is a legal agreement between you and NVIDIA Corporation ("NVIDIA") and governs your use of a NVIDIA software development kit ("SDK").

Each SDK has its own set of software and materials, but here is a description of the types of items that may be included in a SDK: source code, header files, APIs, data sets and assets (examples include images, textures, models, scenes, videos, native API input/output files), binary software, sample code, libraries, utility programs, programming code and documentation.

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.

You agree to use the SDK only for purposes that are permitted by (a) this Agreement, and (b) any applicable law, regulation or generally accepted practices or guidelines in the relevant jurisdictions.

1.1. License

1.1.1. License Grant

Subject to the terms of this Agreement, NVIDIA hereby grants you a non-exclusive, non-transferable license, without the right to sublicense (except as expressly provided in this Agreement) to:

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. Third Party Licenses

The SDK may come bundled with, or otherwise include or be distributed with, third party software licensed by a NVIDIA supplier and/or open source software provided under an open source license. Use of third party software is subject to the third-party license terms, or in the absence of third party terms, the terms of this Agreement. Copyright to third party software is held by the copyright holders indicated in the third-party software or license.

1.1.7. Reservation of Rights

NVIDIA reserves all rights, title, and interest in and to the SDK, not expressly granted to you under this Agreement.

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.
2. Except as expressly provided in this Agreement, you may not copy, sell, rent, sublicense, transfer, distribute, modify, or create derivative works of any portion of the SDK. For clarity, you may not distribute or sublicense the SDK as a stand-alone product.
3. Unless you have an agreement with NVIDIA for this purpose, you may not indicate that an application created with the SDK is sponsored or endorsed by NVIDIA.
4. You may not bypass, disable, or circumvent any encryption, security, digital rights management or authentication mechanism in the SDK.
5. You may not use the SDK in any manner that would cause it to become subject to an open source software license. As examples, licenses that require as a condition of use, modification, and/or distribution that the SDK be:
 - a. Disclosed or distributed in source code form;
 - b. Licensed for the purpose of making derivative works; or
 - c. Redistributable at no charge.
6. Unless you have an agreement with NVIDIA for this purpose, you may not use the SDK with any system or application where the use or failure of the system or application can reasonably be expected to threaten or result in personal injury, death, or catastrophic loss. Examples include use in avionics, navigation, military, medical, life support or other life critical applications. NVIDIA does not design, test or manufacture the SDK for these critical uses 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 uses.
7. You agree to defend, indemnify and hold harmless NVIDIA and its affiliates, and their respective employees, contractors, agents, officers and directors, from and against any and all claims, damages, obligations, losses, liabilities, costs or debt, fines, restitutions and expenses (including but not limited to attorney's fees and costs incident to establishing the right of indemnification) arising out of or related to your use of the SDK outside of the scope of this Agreement, or not in compliance with its terms.

1.3. Ownership

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 described in this section. 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 described in this section.
3. You may, but don't have to, provide to NVIDIA suggestions, feature requests or other feedback regarding the SDK, including possible enhancements or modifications to the SDK. For any feedback that you voluntarily provide, you hereby grant NVIDIA and its affiliates a perpetual, non-exclusive, worldwide, irrevocable license to use, reproduce, modify, license, sublicense (through multiple tiers of sublicensees), and distribute (through multiple tiers of distributors) it without the payment of any royalties or fees to you. NVIDIA will use feedback at its choice. NVIDIA is constantly looking for ways to improve its products, so you may send feedback to NVIDIA through the developer portal at <https://developer.nvidia.com>.

1.4. No Warranties

THE SDK IS PROVIDED BY NVIDIA "AS IS" AND "WITH ALL FAULTS." TO THE MAXIMUM EXTENT PERMITTED BY LAW, NVIDIA AND ITS AFFILIATES EXPRESSLY DISCLAIM ALL WARRANTIES OF ANY KIND OR NATURE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, OR THE ABSENCE OF ANY DEFECTS THEREIN, WHETHER LATENT OR PATENT. NO WARRANTY IS MADE ON THE BASIS OF TRADE USAGE, COURSE OF DEALING OR COURSE OF TRADE.

1.5. Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY LAW, NVIDIA AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR ANY LOST PROFITS, LOSS OF USE, LOSS OF DATA OR LOSS OF GOODWILL, OR THE COSTS OF PROCURING SUBSTITUTE PRODUCTS, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE USE OR PERFORMANCE OF THE SDK, WHETHER SUCH LIABILITY ARISES FROM ANY CLAIM BASED UPON BREACH OF CONTRACT, BREACH OF WARRANTY, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY OR ANY OTHER CAUSE OF ACTION OR THEORY OF LIABILITY. IN NO EVENT WILL NVIDIA'S AND ITS AFFILIATES TOTAL CUMULATIVE LIABILITY UNDER OR ARISING OUT OF THIS AGREEMENT EXCEED US\$10.00. THE NATURE OF THE

LIABILITY OR THE NUMBER OF CLAIMS OR SUITS SHALL NOT ENLARGE OR EXTEND THIS LIMIT.

These exclusions and limitations of liability shall apply regardless if NVIDIA or its affiliates have been advised of the possibility of such damages, and regardless of whether a remedy fails its essential purpose. These exclusions and limitations of liability form an essential basis of the bargain between the parties, and, absent any of these exclusions or limitations of liability, the provisions of this Agreement, including, without limitation, the economic terms, would be substantially different.

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.

This Agreement will be governed in all respects by the laws of the United States and of the State of Delaware as those laws are applied to contracts entered into and performed

entirely within Delaware by Delaware residents, without regard to the conflicts of laws principles. The United Nations Convention on Contracts for the International Sale of Goods is specifically disclaimed. You agree to all terms of this Agreement in the English language.

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.

The SDK has been developed entirely at private expense and is “commercial items” consisting of “commercial computer software” and “commercial computer software documentation” provided with RESTRICTED RIGHTS. Use, duplication or disclosure by the U.S. Government or a U.S. Government subcontractor is subject to the restrictions in this Agreement pursuant to DFARS 227.7202-3(a) or as set forth in subparagraphs (c)(1) and (2) of the Commercial Computer Software - Restricted Rights clause at FAR 52.227-19, as applicable. Contractor/manufacturer is NVIDIA, 2788 San Tomas Expressway, Santa Clara, CA 95051.

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 destinations, end users and end use. By accepting this Agreement, you confirm that you are not a resident or citizen of any country currently embargoed by the U.S. and that you are not otherwise prohibited from receiving the SDK.

Any notice delivered by NVIDIA to you under this Agreement will be delivered via mail, email or fax. You agree that any notices that NVIDIA sends you electronically will satisfy any legal communication requirements. Please direct your legal notices or other correspondence to NVIDIA Corporation, 2788 San Tomas Expressway, Santa Clara, California 95051, United States of America, Attention: Legal Department.

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.

Chapter 2.

CUDA TOOLKIT SUPPLEMENT TO SOFTWARE LICENSE AGREEMENT FOR NVIDIA SOFTWARE DEVELOPMENT KITS

Release date: January 28, 2020

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.

2.6. Attachment A

The following portions of the SDK are distributable under the Agreement:

Component	CUDA Runtime
Windows	cuda.dll, cuda_static.lib, cudadevrt.lib
Mac OSX	libcudart.dylib, libcudart_static.a, libcudadevrt.a
Linux	libcudart.so, libcudart_static.a, libcudadevrt.a
Android	libcudart.so, libcudart_static.a, libcudadevrt.a
Component	CUDA FFT Library
Windows	cufft.dll, cufftw.dll, cufft.lib, cufftw.lib
Mac OSX	libcufft.dylib, libcufft_static.a, libcufftw.dylib, libcufftw_static.a
Linux	libcufft.so, libcufft_static.a, libcufftw.so, libcufftw_static.a
Android	libcufft.so, libcufft_static.a, libcufftw.so, libcufftw_static.a
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
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Mac OSX	libnvvm.dylib
Linux	libnvvm.so
Component	NVIDIA Common Device Math Functions Library
Windows	libdevice.10.bc
Mac OSX	libdevice.10.bc
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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
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Mac OSX	libcupti.dylib
Linux	libcupti.so
Component	NVIDIA Tools Extension Library
Windows	nvToolsExt.dll, nvToolsExt.lib
Mac OSX	libnvToolsExt.dylib
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Component	NVIDIA CUDA Driver Libraries
Linux	libcuda.so, libnvidia-ptxjitcompiler.so

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```

20. Licensee's use of **linmath.h** header for CPU functions for GL vector/matrix operations from **lunarG** is subject to the **Apache License Version 2.0**.
21. The DX12-CUDA sample uses the **d3dx12.h** header, which is subject to the MIT **license**.



CUDNN

DR-08668-001_v01 | November 2019

Software License Agreement



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Each SDK has its own set of software and materials, but here is a description of the types of items that may be included in a SDK: source code, header files, APIs, data sets and assets (examples include images, textures, models, scenes, videos, native API input/output files), binary software, sample code, libraries, utility programs, programming code and documentation.

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 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.

Chapter 1.

LICENSE.

1.1. Grant

Subject to the terms of this Agreement, NVIDIA hereby grants you a non-exclusive, non-transferable license, without the right to sublicense (except as expressly provided in this Agreement) to:

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.

1.2. 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. Unless a developer tool is identified in this Agreement as distributable, it is delivered for your internal use only.
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.

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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.

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TERMINATION.

6.1 This Agreement will continue to apply until terminated by either you or NVIDIA as described below.

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6.3 NVIDIA may, at any time, terminate this Agreement if: (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); (ii) you commence or participate in any legal proceeding against NVIDIA with respect to the SDK; or (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.

6.4 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 licenses granted to you.

Chapter 7.

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FUJITSU AI Zinrai Deep Learning System 200H/200E
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FUJITU AI

Zinrai Deep Learning System 200H/200E

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Addendum for Version 5.0.0

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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	440.64.00
MLNX_OFED_LINUX (*)	5.0-1.0.0.0-ubuntu18.04-x86_64

*: OFED is only for 200H

List of pre-installed container images

Name	Version
PyTorch	20.03-py3
TensorFlow	20.03-tf2-py3
MxNet	20.03-py3