

```
!apt-get --purge remove cuda nvidia* libnvidia-*  
!dpkg -l | grep cuda- | awk '{print $2}' | xargs -n1 dpkg --purge  
!apt-get remove cuda-*  
!apt autoremove  
!apt-get update
```



Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'nvidia-325-updates' for glob 'nvidia*'
Note, selecting 'nvidia-346-updates' for glob 'nvidia*'
Note, selecting 'nvidia-driver-binary' for glob 'nvidia*'
Note, selecting 'nvidia-331-dev' for glob 'nvidia*'
Note, selecting 'nvidia-304-updates-dev' for glob 'nvidia*'
Note, selecting 'nvidia-384-dev' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-346-updates' for glob 'nvidia*'
Note, selecting 'nvidia-340-updates-uvvm' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common' for glob 'nvidia*'
Note, selecting 'nvidia-331-updates-uvvm' for glob 'nvidia*'
Note, selecting 'nvidia-cg-toolkit' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-390' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-410' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-415' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-418' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-430' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-435' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-common-440' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-340-updates' for glob 'nvidia*'
Note, selecting 'nvidia-384-updates' for glob 'nvidia*'
Note, selecting 'nvidia' for glob 'nvidia*'
Note, selecting 'nvidia-driver' for glob 'nvidia*'
Note, selecting 'nvidia-367-updates' for glob 'nvidia*'
Note, selecting 'nvidia-modprobe' for glob 'nvidia*'
Note, selecting 'nvidia-texture-tools' for glob 'nvidia*'
Note, selecting 'nvidia-utils' for glob 'nvidia*'
Note, selecting 'nvidia-387-updates' for glob 'nvidia*'
Note, selecting 'nvidia-current-diagnostic' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-340xx-vgpu-driver' for glob 'nvidia*'
Note, selecting 'nvidia-349-updates' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-304-updates' for glob 'nvidia*'
Note, selecting 'nvidia-310-updates' for glob 'nvidia*'
Note, selecting 'nvidia-331-updates' for glob 'nvidia*'
Note, selecting 'nvidia-352-dev' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-304xx-vgpu-driver' for glob 'nvidia*'
Note, selecting 'nvidia-vgpu-driver' for glob 'nvidia*'
Note, selecting 'nvidia-346-dev' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-331-updates' for glob 'nvidia*'
Note, selecting 'nvidia-utils-390' for glob 'nvidia*'
Note, selecting 'nvidia-smi' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-361-updates' for glob 'nvidia*'
Note, selecting 'nvidia-313-updates' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-340xx-kernel-dkms' for glob 'nvidia*'
Note, selecting 'nvidia-334-updates' for glob 'nvidia*'
Note, selecting 'nvidia-utils-410' for glob 'nvidia*'
Note, selecting 'nvidia-utils-415' for glob 'nvidia*'
Note, selecting 'nvidia-utils-418' for glob 'nvidia*'
Note, selecting 'nvidia-utils-430' for glob 'nvidia*'
Note, selecting 'nvidia-utils-435' for glob 'nvidia*'
Note, selecting 'nvidia-utils-440' for glob 'nvidia*'
Note, selecting 'nvidia-331-uvvm' for glob 'nvidia*'
Note, selecting 'nvidia-prime' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-390' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-dkms' for glob 'nvidia*'

Note, selecting 'nvidia-dkms-410' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-415' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-418' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-430' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-435' for glob 'nvidia*'
Note, selecting 'nvidia-dkms-440' for glob 'nvidia*'
Note, selecting 'nvidia-current-updates' for glob 'nvidia*'
Note, selecting 'nvidia-340-dev' for glob 'nvidia*'
Note, selecting 'nvidia-nsight' for glob 'nvidia*'
Note, selecting 'nvidia-common' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-346-updates' for glob 'nvidia*'
Note, selecting 'nvidia-352-updates' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-390' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-410' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-415' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-418' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-430' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-435' for glob 'nvidia*'
Note, selecting 'nvidia-headless-no-dkms-440' for glob 'nvidia*'
Note, selecting 'nvidia-current-dev' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl-352-updates' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-390' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-410' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-415' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-418' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-430' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-435' for glob 'nvidia*'
Note, selecting 'nvidia-compute-utils-440' for glob 'nvidia*'
Note, selecting 'nvidia-355-updates' for glob 'nvidia*'
Note, selecting 'nvidia-driver-libs-nonglvnd' for glob 'nvidia*'
Note, selecting 'nvidia-375-dev' for glob 'nvidia*'
Note, selecting 'nvidia-current' for glob 'nvidia*'
Note, selecting 'nvidia-profiler' for glob 'nvidia*'
Note, selecting 'nvidia-375-updates' for glob 'nvidia*'
Note, selecting 'nvidia-driver-390' for glob 'nvidia*'
Note, selecting 'nvidia-337-updates' for glob 'nvidia*'
Note, selecting 'nvidia-358-updates' for glob 'nvidia*'
Note, selecting 'nvidia-367-dev' for glob 'nvidia*'
Note, selecting 'nvidia-driver-410' for glob 'nvidia*'
Note, selecting 'nvidia-driver-415' for glob 'nvidia*'
Note, selecting 'nvidia-driver-418' for glob 'nvidia*'
Note, selecting 'nvidia-driver-430' for glob 'nvidia*'
Note, selecting 'nvidia-driver-435' for glob 'nvidia*'
Note, selecting 'nvidia-driver-440' for glob 'nvidia*'
Note, selecting 'nvidia-cuda-toolkit' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-304xx-driver' for glob 'nvidia*'
Note, selecting 'nvidia-driver-libs' for glob 'nvidia*'
Note, selecting 'nvidia-kernel-source' for glob 'nvidia*'
Note, selecting 'nvidia-378-updates' for glob 'nvidia*'
Note, selecting 'nvidia-340-updates-dev' for glob 'nvidia*'
Note, selecting 'nvidia-319-updates' for glob 'nvidia*'
Note, selecting 'nvidia-304-dev' for glob 'nvidia*'
Note, selecting 'nvidia-331-updates-dev' for glob 'nvidia*'
Note, selecting 'nvidia-visual-profiler' for glob 'nvidia*'
Note, selecting 'nvidia-persistenced' for glob 'nvidia*'
Note, selecting 'nvidia-361-dev' for glob 'nvidia*'
Note, selecting 'nvidia-settings-binary' for glob 'nvidia*'
Note, selecting 'nvidia-361-updates-dev' for glob 'nvidia*'

Note, selecting 'nvidia-libopencl1-304' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-331' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-340' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-346' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-352' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-361' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-367' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-375' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-384' for glob 'nvidia*'
Note, selecting 'nvidia-352-updates-dev' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-331-updates' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-352-updates' for glob 'nvidia*'
Note, selecting 'nvidia-304-updates' for glob 'nvidia*'
Note, selecting 'nvidia-340-uvm' for glob 'nvidia*'
Note, selecting 'nvidia-machine-learning-repo-ubuntu1804' for glob 'nvidia*'
Note, selecting 'nvidia-headless-390' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-340xx-driver' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-304-updates' for glob 'nvidia*'
Note, selecting 'nvidia-headless-410' for glob 'nvidia*'
Note, selecting 'nvidia-headless-415' for glob 'nvidia*'
Note, selecting 'nvidia-headless-418' for glob 'nvidia*'
Note, selecting 'nvidia-headless-430' for glob 'nvidia*'
Note, selecting 'nvidia-headless-435' for glob 'nvidia*'
Note, selecting 'nvidia-headless-440' for glob 'nvidia*'
Note, selecting 'nvidia-cuda-dev' for glob 'nvidia*'
Note, selecting 'nvidia-cuda-doc' for glob 'nvidia*'
Note, selecting 'nvidia-340-updates' for glob 'nvidia*'
Note, selecting 'nvidia-361-updates' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-dev' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-dev' for glob 'nvidia*'
Note, selecting 'nvidia-legacy-304xx-kernel-dkms' for glob 'nvidia*'
Note, selecting 'nvidia-cg-dev' for glob 'nvidia*'
Note, selecting 'nvidia-cg-doc' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-340-updates' for glob 'nvidia*'
Note, selecting 'nvidia-libopencl1-361-updates' for glob 'nvidia*'
Note, selecting 'nvidia-381-updates' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-304' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-331' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-340' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-346' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-352' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-361' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-367' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-375' for glob 'nvidia*'
Note, selecting 'nvidia-cuda-gdb' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-304' for glob 'nvidia*'
Note, selecting 'nvidia-opencl-icd-384' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-310' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-313' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-319' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-325' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-331' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-334' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-337' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-340' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-343' for glob 'nvidia*'
Note, selecting 'nvidia-experimental-346' for glob 'nvidia*'

```
Note, selecting 'nvidia-experimental-340' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-349' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-352' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-355' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-358' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-361' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-364' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-367' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-375' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-378' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-381' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-384' for glob 'nvidia*'  
Note, selecting 'nvidia-experimental-387' for glob 'nvidia*'  
Note, selecting 'nvidia-343-updates' for glob 'nvidia*'  
Note, selecting 'nvidia-364-updates' for glob 'nvidia*'  
Note, selecting 'nvidia-304' for glob 'nvidia*'  
Note, selecting 'nvidia-310' for glob 'nvidia*'  
Note, selecting 'nvidia-313' for glob 'nvidia*'  
Note, selecting 'nvidia-319' for glob 'nvidia*'  
Note, selecting 'nvidia-325' for glob 'nvidia*'  
Note, selecting 'nvidia-331' for glob 'nvidia*'  
Note, selecting 'nvidia-334' for glob 'nvidia*'  
Note, selecting 'nvidia-337' for glob 'nvidia*'  
Note, selecting 'nvidia-340' for glob 'nvidia*'  
Note, selecting 'nvidia-343' for glob 'nvidia*'  
Note, selecting 'nvidia-346' for glob 'nvidia*'  
Note, selecting 'nvidia-349' for glob 'nvidia*'  
Note, selecting 'nvidia-352' for glob 'nvidia*'  
Note, selecting 'nvidia-355' for glob 'nvidia*'  
Note, selecting 'nvidia-358' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-390' for glob 'nvidia*'  
Note, selecting 'nvidia-361' for glob 'nvidia*'  
Note, selecting 'nvidia-364' for glob 'nvidia*'  
Note, selecting 'nvidia-367' for glob 'nvidia*'  
Note, selecting 'nvidia-375' for glob 'nvidia*'  
Note, selecting 'nvidia-378' for glob 'nvidia*'  
Note, selecting 'nvidia-381' for glob 'nvidia*'  
Note, selecting 'nvidia-384' for glob 'nvidia*'  
Note, selecting 'nvidia-387' for glob 'nvidia*'  
Note, selecting 'nvidia-dkms-kernel' for glob 'nvidia*'  
Note, selecting 'nvidia-390' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-410' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-415' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-418' for glob 'nvidia*'  
Note, selecting 'nvidia-346-updates-dev' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-430' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-435' for glob 'nvidia*'  
Note, selecting 'nvidia-kernel-source-440' for glob 'nvidia*'  
Note, selecting 'nvidia-settings' for glob 'nvidia*'  
Note, selecting 'nvidia-opencl-icd' for glob 'nvidia*'  
Note, selecting 'nvidia-settings' instead of 'nvidia-settings-binary'  
Package 'nvidia-libopencl1-dev' is not installed, so not removed  
Package 'nvidia-libopencl1' is not installed, so not removed  
Package 'nvidia-vdpa-driver' is not installed, so not removed  
Package 'nvidia-legacy-340xx-vdpa-driver' is not installed, so not removed  
Package 'nvidia-390' is not installed, so not removed  
Package 'nvidia-driver' is not installed, so not removed  
Package 'nvidia-legacy-340xx-driver' is not installed, so not removed
```

Package 'nvidia-legacy-304xx-driver' is not installed, so not removed
Package 'nvidia-kernel-dkms' is not installed, so not removed
Package 'nvidia-legacy-340xx-kernel-dkms' is not installed, so not removed
Package 'nvidia-legacy-304xx-kernel-dkms' is not installed, so not removed
Package 'nvidia' is not installed, so not removed
Package 'nvidia-current-updates' is not installed, so not removed
Package 'nvidia-experimental-304' is not installed, so not removed
Package 'nvidia-310' is not installed, so not removed
Package 'nvidia-310-updates' is not installed, so not removed
Package 'nvidia-experimental-310' is not installed, so not removed
Package 'nvidia-313' is not installed, so not removed
Package 'nvidia-313-updates' is not installed, so not removed
Package 'nvidia-experimental-313' is not installed, so not removed
Package 'nvidia-319' is not installed, so not removed
Package 'nvidia-319-updates' is not installed, so not removed
Package 'nvidia-experimental-319' is not installed, so not removed
Package 'nvidia-325' is not installed, so not removed
Package 'nvidia-325-updates' is not installed, so not removed
Package 'nvidia-experimental-325' is not installed, so not removed
Package 'nvidia-experimental-331' is not installed, so not removed
Package 'nvidia-334' is not installed, so not removed
Package 'nvidia-334-updates' is not installed, so not removed
Package 'nvidia-experimental-334' is not installed, so not removed
Package 'nvidia-337' is not installed, so not removed
Package 'nvidia-337-updates' is not installed, so not removed
Package 'nvidia-experimental-337' is not installed, so not removed
Package 'nvidia-experimental-340' is not installed, so not removed
Package 'nvidia-343' is not installed, so not removed
Package 'nvidia-343-updates' is not installed, so not removed
Package 'nvidia-experimental-343' is not installed, so not removed
Package 'nvidia-experimental-346' is not installed, so not removed
Package 'nvidia-349' is not installed, so not removed
Package 'nvidia-349-updates' is not installed, so not removed
Package 'nvidia-experimental-349' is not installed, so not removed
Package 'nvidia-experimental-352' is not installed, so not removed
Package 'nvidia-355' is not installed, so not removed
Package 'nvidia-355-updates' is not installed, so not removed
Package 'nvidia-experimental-355' is not installed, so not removed
Package 'nvidia-358' is not installed, so not removed
Package 'nvidia-358-updates' is not installed, so not removed
Package 'nvidia-experimental-358' is not installed, so not removed
Package 'nvidia-experimental-361' is not installed, so not removed
Package 'nvidia-364' is not installed, so not removed
Package 'nvidia-364-updates' is not installed, so not removed
Package 'nvidia-experimental-364' is not installed, so not removed
Package 'nvidia-367-updates' is not installed, so not removed
Package 'nvidia-experimental-367' is not installed, so not removed
Package 'nvidia-375-updates' is not installed, so not removed
Package 'nvidia-experimental-375' is not installed, so not removed
Package 'nvidia-378' is not installed, so not removed
Package 'nvidia-378-updates' is not installed, so not removed
Package 'nvidia-experimental-378' is not installed, so not removed
Package 'nvidia-381' is not installed, so not removed
Package 'nvidia-381-updates' is not installed, so not removed
Package 'nvidia-experimental-381' is not installed, so not removed
Package 'nvidia-384-updates' is not installed, so not removed
Package 'nvidia-experimental-384' is not installed, so not removed
Package 'nvidia-387' is not installed, so not removed

Package 'nvidia-387-updates' is not installed, so not removed
Package 'nvidia-experimental-387' is not installed, so not removed
Note, selecting 'libnvt-bin' instead of 'nvidia-texture-tools'
Package 'nvidia-driver-libs' is not installed, so not removed
Package 'nvidia-driver-libs-nonglvnd' is not installed, so not removed
Package 'nvidia-legacy-304xx-udpau-driver' is not installed, so not removed
Note, selecting 'libnvidia-encode' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-compute-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-ml1' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-encode-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-decode-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-extra' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-390' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-415' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-430' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-435' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-440' for glob 'libnvidia-*'
Note, selecting 'libnvidia-cfg1-any' for glob 'libnvidia-*'
Note, selecting 'libnvidia-diagnostic-410' for glob 'libnvidia-*'
Note, selecting 'libnvidia-diagnostic-418' for glob 'libnvidia-*'
Note, selecting 'libnvidia-gl' for glob 'libnvidia-*'
Note, selecting 'libnvidia-diagnostic' for glob 'libnvidia-*'
Note, selecting 'libnvidia-fbc1' for glob 'libnvidia-*'
Note, selecting 'libnvidia-ipc1-390' for glob 'libnvidia-*'

Note, selecting 'libnvidia-ml-1-390' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-410' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-415' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-418' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-430' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-435' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1-440' for glob 'libnvidia-*

Note, selecting 'libnvidia-common' for glob 'libnvidia-*

Note, selecting 'libnvidia-ml-1' for glob 'libnvidia-*

Note, selecting 'libnvidia-decode' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-390' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-410' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-415' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-418' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-430' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-435' for glob 'libnvidia-*

Note, selecting 'libnvidia-common-440' for glob 'libnvidia-*

Note, selecting 'libnvidia-extra-440' for glob 'libnvidia-*

Note, selecting 'libnvidia-extra-440' instead of 'libnvidia-extra'

Package 'nvidia-340-updates-uvn' is not installed, so not removed

Package 'nvidia-346' is not installed, so not removed

Package 'nvidia-346-dev' is not installed, so not removed

Package 'nvidia-346-updates' is not installed, so not removed

Package 'nvidia-346-updates-dev' is not installed, so not removed

Package 'nvidia-352' is not installed, so not removed

Package 'nvidia-352-dev' is not installed, so not removed

Package 'nvidia-352-updates' is not installed, so not removed

Package 'nvidia-352-updates-dev' is not installed, so not removed

Package 'nvidia-361' is not installed, so not removed

Package 'nvidia-361-dev' is not installed, so not removed

Package 'nvidia-361-updates' is not installed, so not removed

Package 'nvidia-361-updates-dev' is not installed, so not removed

Package 'nvidia-367' is not installed, so not removed

Package 'nvidia-367-dev' is not installed, so not removed

Package 'nvidia-375' is not installed, so not removed

Package 'nvidia-375-dev' is not installed, so not removed

Package 'nvidia-cg-dev' is not installed, so not removed

Package 'nvidia-cg-doc' is not installed, so not removed

Package 'nvidia-cg-toolkit' is not installed, so not removed

Package 'nvidia-cuda-dev' is not installed, so not removed

Package 'nvidia-cuda-doc' is not installed, so not removed

Package 'nvidia-cuda-gdb' is not installed, so not removed

Package 'nvidia-cuda-toolkit' is not installed, so not removed

Package 'nvidia-libopencl1-346' is not installed, so not removed

Package 'nvidia-libopencl1-346-updates' is not installed, so not removed

Package 'nvidia-libopencl1-352' is not installed, so not removed

Package 'nvidia-libopencl1-352-updates' is not installed, so not removed

Package 'nvidia-libopencl1-361' is not installed, so not removed

Package 'nvidia-libopencl1-361-updates' is not installed, so not removed

Package 'nvidia-libopencl1-367' is not installed, so not removed

Package 'nvidia-libopencl1-375' is not installed, so not removed

Package 'nvidia-nsight' is not installed, so not removed

Package 'nvidia-opencl-icd-346' is not installed, so not removed

Package 'nvidia-opencl-icd-346-updates' is not installed, so not removed

Package 'nvidia-opencl-icd-352' is not installed, so not removed

Package 'nvidia-opencl-icd-352-updates' is not installed, so not removed

Package 'nvidia-opencl-icd-361' is not installed, so not removed

Package 'nvidia-opencl-icd-361-updates' is not installed, so not removed

Package 'nvidia-ocl-intel-367' is not installed, so not removed
Package 'nvidia-ocl-intel-375' is not installed, so not removed
Package 'nvidia-profiler' is not installed, so not removed
Package 'nvidia-visual-profiler' is not installed, so not removed
Package 'nvidia-prime' is not installed, so not removed
Package 'libnvidia-cfg1-390' is not installed, so not removed
Package 'libnvidia-cfg1-435' is not installed, so not removed
Package 'libnvidia-common-390' is not installed, so not removed
Package 'libnvidia-common-430' is not installed, so not removed
Package 'libnvidia-common-435' is not installed, so not removed
Package 'libnvidia-compute-390' is not installed, so not removed
Package 'libnvidia-compute-435' is not installed, so not removed
Package 'libnvidia-decode-390' is not installed, so not removed
Package 'libnvidia-decode-430' is not installed, so not removed
Package 'libnvidia-decode-435' is not installed, so not removed
Package 'libnvidia-encode-390' is not installed, so not removed
Package 'libnvidia-encode-430' is not installed, so not removed
Package 'libnvidia-encode-435' is not installed, so not removed
Package 'libnvidia-fbc1-390' is not installed, so not removed
Package 'libnvidia-fbc1-430' is not installed, so not removed
Package 'libnvidia-fbc1-435' is not installed, so not removed
Package 'libnvidia-gl-390' is not installed, so not removed
Package 'libnvidia-gl-435' is not installed, so not removed
Package 'libnvidia-ifr1-390' is not installed, so not removed
Package 'libnvidia-ifr1-430' is not installed, so not removed
Package 'libnvidia-ifr1-435' is not installed, so not removed
Package 'nvidia-331' is not installed, so not removed
Package 'nvidia-331-dev' is not installed, so not removed
Package 'nvidia-331-updates' is not installed, so not removed
Package 'nvidia-331-updates-dev' is not installed, so not removed
Package 'nvidia-331-updates-uvvm' is not installed, so not removed
Package 'nvidia-331-uvvm' is not installed, so not removed
Package 'nvidia-340' is not installed, so not removed
Package 'nvidia-340-dev' is not installed, so not removed
Package 'nvidia-340-updates' is not installed, so not removed
Package 'nvidia-340-updates-dev' is not installed, so not removed
Package 'nvidia-340-uvvm' is not installed, so not removed
Package 'nvidia-compute-utils-390' is not installed, so not removed
Package 'nvidia-compute-utils-430' is not installed, so not removed
Package 'nvidia-compute-utils-435' is not installed, so not removed
Package 'nvidia-dkms-390' is not installed, so not removed
Package 'nvidia-dkms-430' is not installed, so not removed
Package 'nvidia-dkms-435' is not installed, so not removed
Package 'nvidia-driver-390' is not installed, so not removed
Package 'nvidia-driver-430' is not installed, so not removed
Package 'nvidia-driver-435' is not installed, so not removed
Package 'nvidia-headless-390' is not installed, so not removed
Package 'nvidia-headless-430' is not installed, so not removed
Package 'nvidia-headless-435' is not installed, so not removed
Package 'nvidia-headless-no-dkms-390' is not installed, so not removed
Package 'nvidia-headless-no-dkms-430' is not installed, so not removed
Package 'nvidia-headless-no-dkms-435' is not installed, so not removed
Package 'nvidia-kernel-common-390' is not installed, so not removed
Package 'nvidia-kernel-common-430' is not installed, so not removed
Package 'nvidia-kernel-common-435' is not installed, so not removed
Package 'nvidia-kernel-source-390' is not installed, so not removed
Package 'nvidia-kernel-source-430' is not installed, so not removed
Package 'nvidia-kernel-source-435' is not installed, so not removed

Package 'nvidia-opencl-icd-340' is not installed, so not removed
Package 'nvidia-utils-390' is not installed, so not removed
Package 'nvidia-utils-430' is not installed, so not removed
Package 'nvidia-utils-435' is not installed, so not removed
Package 'nvidia-common' is not installed, so not removed
Package 'nvidia-libopencl1-331' is not installed, so not removed
Package 'nvidia-libopencl1-331-updates' is not installed, so not removed
Package 'nvidia-libopencl1-340' is not installed, so not removed
Package 'nvidia-libopencl1-340-updates' is not installed, so not removed
Package 'nvidia-opencl-icd-331' is not installed, so not removed
Package 'nvidia-opencl-icd-331-updates' is not installed, so not removed
Package 'nvidia-opencl-icd-340-updates' is not installed, so not removed
Package 'cuda' is not installed, so not removed
Package 'libnvidia-cfg1-410' is not installed, so not removed
Package 'libnvidia-common-410' is not installed, so not removed
Package 'libnvidia-compute-410' is not installed, so not removed
Package 'libnvidia-decode-410' is not installed, so not removed
Package 'libnvidia-diagnostic-410' is not installed, so not removed
Package 'libnvidia-diagnostic-418' is not installed, so not removed
Package 'libnvidia-encode-410' is not installed, so not removed
Package 'libnvidia-fbc1-410' is not installed, so not removed
Package 'libnvidia-gl-410' is not installed, so not removed
Package 'libnvidia-ifr1-410' is not installed, so not removed
Package 'nvidia-384-dev' is not installed, so not removed
Package 'nvidia-384' is not installed, so not removed
Package 'nvidia-compute-utils-410' is not installed, so not removed
Package 'nvidia-dkms-410' is not installed, so not removed
Package 'nvidia-driver-410' is not installed, so not removed
Package 'nvidia-headless-410' is not installed, so not removed
Package 'nvidia-headless-no-dkms-410' is not installed, so not removed
Package 'nvidia-kernel-common-410' is not installed, so not removed
Package 'nvidia-kernel-source-410' is not installed, so not removed
Package 'nvidia-libopencl1-384' is not installed, so not removed
Package 'nvidia-opencl-icd-384' is not installed, so not removed
Package 'nvidia-utils-410' is not installed, so not removed
Package 'libnvidia-cfg1-415' is not installed, so not removed
Package 'libnvidia-common-415' is not installed, so not removed
Package 'libnvidia-common-418' is not installed, so not removed
Package 'libnvidia-compute-415' is not installed, so not removed
Package 'libnvidia-decode-415' is not installed, so not removed
Package 'libnvidia-decode-418' is not installed, so not removed
Package 'libnvidia-encode-415' is not installed, so not removed
Package 'libnvidia-encode-418' is not installed, so not removed
Package 'libnvidia-fbc1-415' is not installed, so not removed
Package 'libnvidia-fbc1-418' is not installed, so not removed
Package 'libnvidia-gl-415' is not installed, so not removed
Package 'libnvidia-ifr1-415' is not installed, so not removed
Package 'libnvidia-ifr1-418' is not installed, so not removed
Package 'nvidia-304' is not installed, so not removed
Package 'nvidia-304-dev' is not installed, so not removed
Package 'nvidia-304-updates' is not installed, so not removed
Package 'nvidia-304-updates-dev' is not installed, so not removed
Package 'nvidia-compute-utils-415' is not installed, so not removed
Package 'nvidia-compute-utils-418' is not installed, so not removed
Package 'nvidia-current' is not installed, so not removed
Package 'nvidia-current-dev' is not installed, so not removed
Package 'nvidia-dkms-415' is not installed, so not removed
Package 'nvidia-dkms-418' is not installed, so not removed

Package 'nvidia-dkms-418' is not installed, so not removed
 Package 'nvidia-driver-415' is not installed, so not removed
 Package 'nvidia-driver-418' is not installed, so not removed
 Package 'nvidia-headless-415' is not installed, so not removed
 Package 'nvidia-headless-418' is not installed, so not removed
 Package 'nvidia-headless-440' is not installed, so not removed
 Package 'nvidia-headless-no-dkms-415' is not installed, so not removed
 Package 'nvidia-headless-no-dkms-418' is not installed, so not removed
 Package 'nvidia-headless-no-dkms-440' is not installed, so not removed
 Package 'nvidia-kernel-common-415' is not installed, so not removed
 Package 'nvidia-kernel-common-418' is not installed, so not removed
 Package 'nvidia-kernel-source-415' is not installed, so not removed
 Package 'nvidia-kernel-source-418' is not installed, so not removed
 Package 'nvidia-libopencl1-304' is not installed, so not removed
 Package 'nvidia-libopencl1-304-updates' is not installed, so not removed
 Package 'nvidia-ocl-icd-304' is not installed, so not removed
 Package 'nvidia-ocl-icd-304-updates' is not installed, so not removed
 Package 'nvidia-utils-415' is not installed, so not removed
 Package 'nvidia-utils-418' is not installed, so not removed
 Package 'nvidia-machine-learning-repo-ubuntu1804' is not installed, so not removed

The following packages were automatically installed and are no longer required:

cuda-command-line-tools-10-0 cuda-compiler-10-0 cuda-cuobjdump-10-0
 cuda-cupti-10-0 cuda-documentation-10-0 cuda-documentation-10-1
 cuda-gdb-10-0 cuda-gpu-library-advisor-10-0 cuda-libraries-10-0
 cuda-memcheck-10-0 cuda-nsight-10-0 cuda-nsight-10-1
 cuda-nsight-compute-10-0 cuda-nsight-compute-10-1 cuda-nsight-systems-10-1
 cuda-nvcc-10-0 cuda-nvdisasm-10-0 cuda-nvml-dev-10-0 cuda-nvprof-10-0
 cuda-nvprune-10-0 cuda-nvtx-10-0 cuda-nvvp-10-0 cuda-nvvp-10-1
 cuda-samples-10-0 cuda-samples-10-1 cuda-toolkit-10-0 cuda-toolkit-10-1
 cuda-tools-10-0 cuda-tools-10-1 cuda-visual-tools-10-0
 cuda-visual-tools-10-1 default-jre dkms freeglut3 freeglut3-dev
 keyboard-configuration libargon2-0 libcap2 libcryptsetup12
 libdevmapper1.02.1 libfontenc1 libgtk2.0-0 libgtk2.0-common libidn11
 libip4tc0 libjansson4 libpam-systemd libpolkit-agent-1-0
 libpolkit-backend-1-0 libpolkit-gobject-1-0 libxfont2 libxi-dev libxkbfile1
 libxmu-dev libxmu-headers libxnvctrl0 nsight-compute-2019.5.0
 nsight-systems-2019.5.2 ocl-icd-opencl-dev opencl-c-headers openjdk-11-jre
 policykit-1 policykit-1-gnome python3-xkit screen-resolution-extra systemd
 systemd-sysv udev x11-xkb-utils xserver-common xserver-xorg-core-hwe-18.04

Use 'apt autoremove' to remove them.

The following packages will be REMOVED:

cuda-10-0* cuda-10-1* cuda-demo-suite-10-0* cuda-demo-suite-10-1*
 cuda-drivers* cuda-runtime-10-0* cuda-runtime-10-1* libnvidia-cfg1-418*
 libnvidia-cfg1-430* libnvidia-cfg1-440* libnvidia-common-440*
 libnvidia-compute-418* libnvidia-compute-430* libnvidia-compute-440*
 libnvidia-decode-440* libnvidia-encode-440* libnvidia-extra-440*
 libnvidia-fbc1-440* libnvidia-gl-418* libnvidia-gl-430* libnvidia-gl-440*
 libnvidia-ifrt1-440* nvidia-compute-utils-440* nvidia-dkms-440*
 nvidia-driver-440* nvidia-kernel-common-440* nvidia-kernel-source-440*
 nvidia-modprobe* nvidia-opencl-dev* nvidia-settings* nvidia-utils-440*
 xserver-xorg-video-nvidia-440*

0 upgraded, 0 newly installed, 32 to remove and 31 not upgraded.

After this operation, 393 MB disk space will be freed.

(Reading database ... 144439 files and directories currently installed.)

Removing cuda-10-0 (10.0.130-1) ...

Removing cuda-10-1 (10.1.243-1) ...

Removing cuda-demo-suite-10-0 (10.0.130-1) ...

Removing cuda-demo-suite-10-1 (10.1.243-1) ...

```

Removing cuda-runtime-10-1 (10.1.243-1) ...
Removing cuda-runtime-10-0 (10.0.130-1) ...
Removing cuda-drivers (440.64.00-1) ...
Removing libnvidia-cfg1-418:amd64 (430.64-0ubuntu0~gpu18.04.1) ...
Removing libnvidia-cfg1-430:amd64 (440.59-0ubuntu0.18.04.1) ...
Removing nvidia-driver-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing xserver-xorg-video-nvidia-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-cfg1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-ifr1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-gl-418:amd64 (430.64-0ubuntu0~gpu18.04.1) ...
Removing libnvidia-gl-430:amd64 (440.59-0ubuntu0.18.04.1) ...
Removing libnvidia-gl-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-compute-418:amd64 (430.64-0ubuntu0~gpu18.04.1) ...
Removing libnvidia-compute-430:amd64 (440.59-0ubuntu0.18.04.1) ...
Removing libnvidia-encode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-decode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing nvidia-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-extra-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing libnvidia-fbc1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Removing nvidia-compute-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
System has not been booted with systemd as init system (PID 1). Can't operate.
Removing nvidia-dkms-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing all DKMS Modules
Done.
Removing nvidia-kernel-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing nvidia-kernel-source-440 (440.82-0ubuntu0~0.18.04.1) ...
Removing nvidia-modprobe (440.64.00-0ubuntu1) ...
Removing nvidia-openssl-dev:amd64 (9.1.85-3ubuntu1) ...
Removing nvidia-settings (440.64.00-0ubuntu1) ...
Removing libnvidia-compute-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
/sbin/ldconfig.real: /usr/local/lib/python3.6/dist-packages/ideep4py/lib/libmkldnn.so.0 is not a symbolic link

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Processing triggers for mime-support (3.60ubuntu1) ...
(Reading database ... 143773 files and directories currently installed.)
Purging configuration files for libnvidia-compute-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Purging configuration files for nvidia-dkms-440 (440.82-0ubuntu0~0.18.04.1) ...
Purging configuration files for nvidia-settings (440.64.00-0ubuntu1) ...
Purging configuration files for nvidia-kernel-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Purging configuration files for nvidia-compute-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
dpkg: dependency problems prevent removal of cuda-command-line-tools-10-0:
cuda-tools-10-0 depends on cuda-command-line-tools-10-0 (>= 10.0.130).

dpkg: error processing package cuda-command-line-tools-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-command-line-tools-10-0
dpkg: dependency problems prevent removal of cuda-command-line-tools-10-1:
cuda-tools-10-1 depends on cuda-command-line-tools-10-1 (>= 10.1.243).

dpkg: error processing package cuda-command-line-tools-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-command-line-tools-10-1
(Reading database ... 143769 files and directories currently installed.)
Removing cuda-compat-10-1 (418.87.01-1) ...

```

```
...removing cuda-compat-10-0 (2.27-3ubuntu1) ...
```

```
Processing triggers for libc-bin (2.27-3ubuntu1) ...
```

```
/sbin/ldconfig.real: /usr/local/lib/python3.6/dist-packages/ideep4py/lib/libmkldnn.so.0 is not a symbolic link
```

dpkg: dependency problems prevent removal of cuda-compiler-10-0:
cuda-toolkit-10-0 depends on cuda-compiler-10-0 (>= 10.0.130).

dpkg: error processing package cuda-compiler-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-compiler-10-0

dpkg: dependency problems prevent removal of cuda-compiler-10-1:
cuda-toolkit-10-1 depends on cuda-compiler-10-1 (>= 10.1.243).
cuda-minimal-build-10-1 depends on cuda-compiler-10-1 (>= 10.1.243).

dpkg: error processing package cuda-compiler-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-compiler-10-1

dpkg: dependency problems prevent removal of cuda-cublas-10-0:
cuda-libraries-10-0 depends on cuda-cublas-10-0 (>= 10.0.130).
cuda-cublas-dev-10-0 depends on cuda-cublas-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cublas-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-cublas-10-0

dpkg: dependency problems prevent removal of cuda-cublas-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-cublas-dev-10-0 (>= 10.0.130).
cuda-samples-10-0 depends on cuda-cublas-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-cublas-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cublas-dev-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-cublas-dev-10-0

dpkg: dependency problems prevent removal of cuda-cudart-10-0:
cuda-cudart-dev-10-0 depends on cuda-cudart-10-0 (>= 10.0.130).
cuda-libraries-10-0 depends on cuda-cudart-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cudart-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-cudart-10-0

dpkg: dependency problems prevent removal of cuda-cudart-10-1:
cuda-cudart-dev-10-1 depends on cuda-cudart-10-1 (>= 10.1.243).
cuda-libraries-10-1 depends on cuda-cudart-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cudart-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-cudart-10-1

dpkg: dependency problems prevent removal of cuda-cudart-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-cudart-dev-10-0 (>= 10.0.130).
cuda-cupti-10-0 depends on cuda-cudart-dev-10-0 (>= 10.0.130).
cuda-samples-10-0 depends on cuda-cudart-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-cudart-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cudart-dev-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cudart-dev-10-0
dpkg: dependency problems prevent removal of cuda-cudart-dev-10-1:
cuda-samples-10-1 depends on cuda-cudart-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-cudart-dev-10-1 (>= 10.1.243).
cuda-visual-tools-10-1 depends on cuda-cudart-dev-10-1 (>= 10.1.243).
cuda-minimal-build-10-1 depends on cuda-cudart-dev-10-1 (>= 10.1.243).
cuda-cupti-10-1 depends on cuda-cudart-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cudart-dev-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cudart-dev-10-1
dpkg: dependency problems prevent removal of cuda-cufft-10-0:
cuda-libraries-10-0 depends on cuda-cufft-10-0 (>= 10.0.130).
cuda-cufft-dev-10-0 depends on cuda-cufft-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cufft-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cufft-10-0
dpkg: dependency problems prevent removal of cuda-cufft-10-1:
cuda-cufft-dev-10-1 depends on cuda-cufft-10-1 (>= 10.1.243).
cuda-libraries-10-1 depends on cuda-cufft-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cufft-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cufft-10-1
dpkg: dependency problems prevent removal of cuda-cufft-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-cufft-dev-10-0 (>= 10.0.130).
cuda-samples-10-0 depends on cuda-cufft-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-cufft-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cufft-dev-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cufft-dev-10-0
dpkg: dependency problems prevent removal of cuda-cufft-dev-10-1:
cuda-samples-10-1 depends on cuda-cufft-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-cufft-dev-10-1 (>= 10.1.243).
cuda-visual-tools-10-1 depends on cuda-cufft-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cufft-dev-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cufft-dev-10-1
dpkg: dependency problems prevent removal of cuda-cuobjdump-10-0:
cuda-compiler-10-0 depends on cuda-cuobjdump-10-0 (>= 10.0.130).
cuda-gdb-10-0 depends on cuda-cuobjdump-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cuobjdump-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cuobjdump-10-0
dpkg: dependency problems prevent removal of cuda-cuobjdump-10-1:

cuda-gdb-10-1 depends on cuda-cuobjdump-10-1 ($\geq 10.1.243$).
cuda-compiler-10-1 depends on cuda-cuobjdump-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-cuobjdump-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cuobjdump-10-1
dpkg: dependency problems prevent removal of cuda-cupti-10-0:
cuda-command-line-tools-10-0 depends on cuda-cupti-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-cupti-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cupti-10-0
dpkg: dependency problems prevent removal of cuda-cupti-10-1:
cuda-command-line-tools-10-1 depends on cuda-cupti-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-cupti-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-cupti-10-1
dpkg: dependency problems prevent removal of cuda-curand-10-0:
cuda-curand-dev-10-0 depends on cuda-curand-10-0 ($\geq 10.0.130$).
cuda-libraries-10-0 depends on cuda-curand-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-curand-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-curand-10-0
dpkg: dependency problems prevent removal of cuda-curand-10-1:
cuda-curand-dev-10-1 depends on cuda-curand-10-1 ($\geq 10.1.243$).
cuda-libraries-10-1 depends on cuda-curand-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-curand-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-curand-10-1
dpkg: dependency problems prevent removal of cuda-curand-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-curand-dev-10-0 ($\geq 10.0.130$).
cuda-samples-10-0 depends on cuda-curand-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-curand-dev-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-curand-dev-10-0 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-curand-dev-10-0
dpkg: dependency problems prevent removal of cuda-curand-dev-10-1:
cuda-samples-10-1 depends on cuda-curand-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-curand-dev-10-1 ($\geq 10.1.243$).
cuda-visual-tools-10-1 depends on cuda-curand-dev-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-curand-dev-10-1 (--purge):
dependency problems - not removing
Errors were encountered while processing:
cuda-curand-dev-10-1
dpkg: dependency problems prevent removal of cuda-cusolver-10-0:
cuda-cusolver-dev-10-0 depends on cuda-cusolver-10-0 ($\geq 10.0.130$).
cuda-libraries-10-0 depends on cuda-cusolver-10-0 ($\geq 10.0.130$).

cuda-libraries-10-0 depends on cuda-cusolver-10-0 (>= 10.1.243).

dpkg: error processing package cuda-cusolver-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cusolver-10-0

dpkg: dependency problems prevent removal of cuda-cusolver-10-1:

cuda-cusolver-dev-10-1 depends on cuda-cusolver-10-1 (>= 10.1.243).

cuda-libraries-10-1 depends on cuda-cusolver-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cusolver-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cusolver-10-1

dpkg: dependency problems prevent removal of cuda-cusolver-dev-10-0:

cuda-visual-tools-10-0 depends on cuda-cusolver-dev-10-0 (>= 10.0.130).

cuda-samples-10-0 depends on cuda-cusolver-dev-10-0.

cuda-libraries-dev-10-0 depends on cuda-cusolver-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cusolver-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cusolver-dev-10-0

dpkg: dependency problems prevent removal of cuda-cusolver-dev-10-1:

cuda-samples-10-1 depends on cuda-cusolver-dev-10-1.

cuda-libraries-dev-10-1 depends on cuda-cusolver-dev-10-1 (>= 10.1.243).

cuda-visual-tools-10-1 depends on cuda-cusolver-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cusolver-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cusolver-dev-10-1

dpkg: dependency problems prevent removal of cuda-cuspars-10-0:

cuda-cuspars-dev-10-0 depends on cuda-cuspars-10-0 (>= 10.0.130).

cuda-libraries-10-0 depends on cuda-cuspars-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cuspars-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cuspars-10-0

dpkg: dependency problems prevent removal of cuda-cuspars-10-1:

cuda-cuspars-dev-10-1 depends on cuda-cuspars-10-1 (>= 10.1.243).

cuda-libraries-10-1 depends on cuda-cuspars-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cuspars-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cuspars-10-1

dpkg: dependency problems prevent removal of cuda-cuspars-dev-10-0:

cuda-visual-tools-10-0 depends on cuda-cuspars-dev-10-0 (>= 10.0.130).

cuda-samples-10-0 depends on cuda-cuspars-dev-10-0.

cuda-libraries-dev-10-0 depends on cuda-cuspars-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-cuspars-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cuspars-dev-10-0

dpkg: dependency problems prevent removal of cuda-cuspars-dev-10-1:

cuda-samples-10-1 depends on cuda-cusparse-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-cusparse-dev-10-1 (>= 10.1.243).
cuda-visual-tools-10-1 depends on cuda-cusparse-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-cusparse-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-cusparse-dev-10-1

dpkg: dependency problems prevent removal of cuda-documentation-10-0:

cuda-toolkit-10-0 depends on cuda-documentation-10-0 (>= 10.0.130).

dpkg: error processing package cuda-documentation-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-documentation-10-0

dpkg: dependency problems prevent removal of cuda-documentation-10-1:

cuda-toolkit-10-1 depends on cuda-documentation-10-1 (>= 10.1.243).

dpkg: error processing package cuda-documentation-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-documentation-10-1

dpkg: dependency problems prevent removal of cuda-driver-dev-10-0:

cuda-cudart-dev-10-0 depends on cuda-driver-dev-10-0 (>= 10.0.130).

cuda-visual-tools-10-0 depends on cuda-driver-dev-10-0 (>= 10.0.130).

cuda-samples-10-0 depends on cuda-driver-dev-10-0.

cuda-libraries-dev-10-0 depends on cuda-driver-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-driver-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-driver-dev-10-0

dpkg: dependency problems prevent removal of cuda-driver-dev-10-1:

cuda-samples-10-1 depends on cuda-driver-dev-10-1.

cuda-libraries-dev-10-1 depends on cuda-driver-dev-10-1 (>= 10.1.243).

cuda-visual-tools-10-1 depends on cuda-driver-dev-10-1 (>= 10.1.243).

cuda-cudart-dev-10-1 depends on cuda-driver-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-driver-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-driver-dev-10-1

dpkg: dependency problems prevent removal of cuda-gdb-10-0:

cuda-command-line-tools-10-0 depends on cuda-gdb-10-0 (>= 10.0.130).

dpkg: error processing package cuda-gdb-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-gdb-10-0

dpkg: dependency problems prevent removal of cuda-gdb-10-1:

cuda-command-line-tools-10-1 depends on cuda-gdb-10-1 (>= 10.1.243).

dpkg: error processing package cuda-gdb-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-gdb-10-1

dpkg: dependency problems prevent removal of cuda-gpu-library-advisor-10-0:

cuda-command-line-tools-10-0 depends on cuda-gpu-library-advisor-10-0 (>= 10.0.130).

dpkg: error processing package cuda-gpu-library-advisor-10-0 (--purge):
 dependency problems - not removing
 Errors were encountered while processing:
 cuda-gpu-library-advisor-10-0
dpkg: dependency problems prevent removal of cuda-gpu-library-advisor-10-1:
 cuda-command-line-tools-10-1 depends on cuda-gpu-library-advisor-10-1 (>= 10.1.243).

dpkg: error processing package cuda-gpu-library-advisor-10-1 (--purge):
 dependency problems - not removing
 Errors were encountered while processing:
 cuda-gpu-library-advisor-10-1
 (Reading database ... 143759 files and directories currently installed.)
 Removing cuda-libraries-10-0 (10.0.130-1) ...
 (Reading database ... 143756 files and directories currently installed.)
 Removing cuda-libraries-10-1 (10.1.243-1) ...
dpkg: dependency problems prevent removal of cuda-libraries-dev-10-0:
 cuda-toolkit-10-0 depends on cuda-libraries-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-libraries-dev-10-0 (--purge):
 dependency problems - not removing
 Errors were encountered while processing:
 cuda-libraries-dev-10-0
dpkg: dependency problems prevent removal of cuda-libraries-dev-10-1:
 cuda-toolkit-10-1 depends on cuda-libraries-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-libraries-dev-10-1 (--purge):
 dependency problems - not removing
 Errors were encountered while processing:
 cuda-libraries-dev-10-1
dpkg: dependency problems prevent removal of cuda-license-10-0:
 cuda-cusolver-dev-10-0 depends on cuda-license-10-0.
 cuda-cuspars-dev-10-0 depends on cuda-license-10-0.
 cuda-curand-dev-10-0 depends on cuda-license-10-0.
 cuda-nvtx-10-0 depends on cuda-license-10-0.
 cuda-nvrtc-10-0 depends on cuda-license-10-0.
 cuda-nvprof-10-0 depends on cuda-license-10-0.
 cuda-nvcc-10-0 depends on cuda-license-10-0.
 cuda-nvml-dev-10-0 depends on cuda-license-10-0.
 cuda-nvdisasm-10-0 depends on cuda-license-10-0.
 cuda-nsight-10-0 depends on cuda-license-10-0.
 cuda-compiler-10-0 depends on cuda-license-10-0 (>= 10.0.130).
 cuda-documentation-10-0 depends on cuda-license-10-0.
 cuda-npp-dev-10-0 depends on cuda-license-10-0.
 cuda-nvrtc-dev-10-0 depends on cuda-license-10-0.
 cuda-memcheck-10-0 depends on cuda-license-10-0.
 cuda-cudart-dev-10-0 depends on cuda-license-10-0.
 cuda-toolkit-10-0 depends on cuda-license-10-0 (>= 10.0.130).
 cuda-nvgraph-dev-10-0 depends on cuda-license-10-0.
 cuda-cublas-10-0 depends on cuda-license-10-0.
 cuda-gpu-library-advisor-10-0 depends on cuda-license-10-0.
 cuda-driver-dev-10-0 depends on cuda-license-10-0.
 cuda-curand-10-0 depends on cuda-license-10-0.
 cuda-nvvp-10-0 depends on cuda-license-10-0.
 cuda-misc-headers-10-0 depends on cuda-license-10-0.
 cuda-cusolver-10-0 depends on cuda-license-10-0.
 cuda-cufft-dev-10-0 depends on cuda-license-10-0.
 cuda-ppm-10-0 depends on cuda-license-10-0.

cuda-npp-10-0 depends on cuda-license-10-0.
cuda-cudart-10-0 depends on cuda-license-10-0.
cuda-cupti-10-0 depends on cuda-license-10-0.
cuda-nsight-compute-10-0 depends on cuda-license-10-0.
cuda-cufft-10-0 depends on cuda-license-10-0.
cuda-nvjpeg-dev-10-0 depends on cuda-license-10-0.
cuda-gdb-10-0 depends on cuda-license-10-0.
cuda-nvjpeg-10-0 depends on cuda-license-10-0.
cuda-cuobjdump-10-0 depends on cuda-license-10-0.
cuda-cusparse-10-0 depends on cuda-license-10-0.
cuda-tools-10-0 depends on cuda-license-10-0 ($\geq 10.0.130$).
cuda-libraries-dev-10-0 depends on cuda-license-10-0 ($\geq 10.0.130$).
cuda-cublas-dev-10-0 depends on cuda-license-10-0.
cuda-nvprune-10-0 depends on cuda-license-10-0.
cuda-nvgraph-10-0 depends on cuda-license-10-0.

dpkg: error processing package cuda-license-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-license-10-0

dpkg: dependency problems prevent removal of cuda-license-10-1:

cuda-nsight-compute-10-1 depends on cuda-license-10-1; however:

Package cuda-license-10-1 is to be removed.

cuda-toolkit-10-1 depends on cuda-license-10-1 ($\geq 10.1.243$).

cuda-nvgraph-dev-10-1 depends on cuda-license-10-1.

cuda-gdb-10-1 depends on cuda-license-10-1.

cuda-nsight-systems-10-1 depends on cuda-license-10-1; however:

Package cuda-license-10-1 is to be removed.

cuda-cuobjdump-10-1 depends on cuda-license-10-1.

cuda-driver-dev-10-1 depends on cuda-license-10-1.

cuda-nvvp-10-1 depends on cuda-license-10-1.

cuda-tools-10-1 depends on cuda-license-10-1 ($\geq 10.1.243$).

cuda-libraries-dev-10-1 depends on cuda-license-10-1 ($\geq 10.1.243$).

cuda-cusolver-dev-10-1 depends on cuda-license-10-1.

cuda-cufft-dev-10-1 depends on cuda-license-10-1.

cuda-npp-10-1 depends on cuda-license-10-1.

libcublas-dev depends on cuda-license-10-1.

cuda-curand-dev-10-1 depends on cuda-license-10-1.

libcublas10 depends on cuda-license-10-1.

cuda-nvrtc-10-1 depends on cuda-license-10-1.

cuda-nvprof-10-1 depends on cuda-license-10-1.

cuda-cufft-10-1 depends on cuda-license-10-1.

cuda-nvjpeg-dev-10-1 depends on cuda-license-10-1.

cuda-sanitizer-api-10-1 depends on cuda-license-10-1.

cuda-nvml-dev-10-1 depends on cuda-license-10-1.

cuda-nvdisasm-10-1 depends on cuda-license-10-1.

cuda-nsight-10-1 depends on cuda-license-10-1.

cuda-compiler-10-1 depends on cuda-license-10-1 ($\geq 10.1.243$).

cuda-nvjpeg-10-1 depends on cuda-license-10-1.

cuda-minimal-build-10-1 depends on cuda-license-10-1 ($\geq 10.1.243$).

cuda-cusparse-10-1 depends on cuda-license-10-1.

cuda-nvrtc-dev-10-1 depends on cuda-license-10-1.

cuda-cudart-dev-10-1 depends on cuda-license-10-1.

cuda-memcheck-10-1 depends on cuda-license-10-1.

cuda-nvprune-10-1 depends on cuda-license-10-1.

cuda-nvgraph-10-1 depends on cuda-license-10-1.

cuda-gpu-library-advisor-10-1 depends on cuda-license-10-1.

cuda-cusparse-dev-10-1 depends on cuda-license-10-1.

cuda-curand-10-1 depends on cuda-license-10-1.
cuda-nvtx-10-1 depends on cuda-license-10-1.
cuda-misc-headers-10-1 depends on cuda-license-10-1.
cuda-cusolver-10-1 depends on cuda-license-10-1.
cuda-nvcc-10-1 depends on cuda-license-10-1.
cuda-documentation-10-1 depends on cuda-license-10-1.
cuda-npp-dev-10-1 depends on cuda-license-10-1.
cuda-cudart-10-1 depends on cuda-license-10-1.
cuda-cupti-10-1 depends on cuda-license-10-1.

dpkg: error processing package cuda-license-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-license-10-1

dpkg: dependency problems prevent removal of cuda-memcheck-10-0:

cuda-command-line-tools-10-0 depends on cuda-memcheck-10-0 (>= 10.0.130).

dpkg: error processing package cuda-memcheck-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-memcheck-10-0

dpkg: dependency problems prevent removal of cuda-memcheck-10-1:

cuda-command-line-tools-10-1 depends on cuda-memcheck-10-1 (>= 10.1.243).

dpkg: error processing package cuda-memcheck-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-memcheck-10-1

(Reading database ... 143753 files and directories currently installed.)

Removing cuda-minimal-build-10-1 (10.1.243-1) ...

dpkg: dependency problems prevent removal of cuda-misc-headers-10-0:

cuda-nvcc-10-0 depends on cuda-misc-headers-10-0 (>= 10.0.130).

cuda-libraries-dev-10-0 depends on cuda-misc-headers-10-0 (>= 10.0.130).

dpkg: error processing package cuda-misc-headers-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-misc-headers-10-0

dpkg: dependency problems prevent removal of cuda-misc-headers-10-1:

cuda-libraries-dev-10-1 depends on cuda-misc-headers-10-1 (>= 10.1.243).

cuda-nvcc-10-1 depends on cuda-misc-headers-10-1 (>= 10.1.243).

dpkg: error processing package cuda-misc-headers-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-misc-headers-10-1

dpkg: dependency problems prevent removal of cuda-npp-10-0:

cuda-npp-dev-10-0 depends on cuda-npp-10-0 (>= 10.0.130).

dpkg: error processing package cuda-npp-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-npp-10-0

dpkg: dependency problems prevent removal of cuda-npp-10-1:

cuda-npp-dev-10-1 depends on cuda-npp-10-1 (>= 10.1.243).

dpkg: error processing package cuda-npp-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-npp-10-1

dpkg: dependency problems prevent removal of cuda-npp-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-npp-dev-10-0 (>= 10.0.130).
cuda-samples-10-0 depends on cuda-npp-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-npp-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-npp-dev-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-npp-dev-10-0

dpkg: dependency problems prevent removal of cuda-npp-dev-10-1:
cuda-samples-10-1 depends on cuda-npp-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-npp-dev-10-1 (>= 10.1.243).
cuda-visual-tools-10-1 depends on cuda-npp-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-npp-dev-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-npp-dev-10-1

dpkg: dependency problems prevent removal of cuda-nsight-10-0:
cuda-visual-tools-10-0 depends on cuda-nsight-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nsight-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nsight-10-0

dpkg: dependency problems prevent removal of cuda-nsight-10-1:
cuda-visual-tools-10-1 depends on cuda-nsight-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nsight-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nsight-10-1

dpkg: dependency problems prevent removal of cuda-nsight-compute-10-0:
cuda-visual-tools-10-0 depends on cuda-nsight-compute-10-0.

dpkg: error processing package cuda-nsight-compute-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nsight-compute-10-0

dpkg: dependency problems prevent removal of cuda-nsight-compute-10-1:
cuda-visual-tools-10-1 depends on cuda-nsight-compute-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nsight-compute-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nsight-compute-10-1

dpkg: dependency problems prevent removal of cuda-nsight-systems-10-1:
cuda-visual-tools-10-1 depends on cuda-nsight-systems-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nsight-systems-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nsight-systems-10-1

dpkg: dependency problems prevent removal of cuda-nvcc-10-0:
cuda-compiler-10-0 depends on cuda-nvcc-10-0 (>= 10.0.130).

cuda-cupti-10-0 depends on cuda-nvcc-10-0 (>= 10.0.130).

cuda-cupti-10-0 depends on cuda-nvcc-10-0 (<= 10.0.130).

cuda-samples-10-0 depends on cuda-nvcc-10-0.

dpkg: error processing package cuda-nvcc-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvcc-10-0

dpkg: dependency problems prevent removal of cuda-nvcc-10-1:

cuda-samples-10-1 depends on cuda-nvcc-10-1.

cuda-compiler-10-1 depends on cuda-nvcc-10-1 (>= 10.1.243).

cuda-cupti-10-1 depends on cuda-nvcc-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvcc-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvcc-10-1

dpkg: dependency problems prevent removal of cuda-nvdisasm-10-0:

cuda-command-line-tools-10-0 depends on cuda-nvdisasm-10-0 (>= 10.0.130).

cuda-gdb-10-0 depends on cuda-nvdisasm-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvdisasm-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvdisasm-10-0

dpkg: dependency problems prevent removal of cuda-nvdisasm-10-1:

cuda-gdb-10-1 depends on cuda-nvdisasm-10-1 (>= 10.1.243).

cuda-command-line-tools-10-1 depends on cuda-nvdisasm-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvdisasm-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvdisasm-10-1

dpkg: dependency problems prevent removal of cuda-nvgraph-10-0:

cuda-nvgraph-dev-10-0 depends on cuda-nvgraph-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvgraph-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvgraph-10-0

dpkg: dependency problems prevent removal of cuda-nvgraph-10-1:

cuda-nvgraph-dev-10-1 depends on cuda-nvgraph-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvgraph-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvgraph-10-1

dpkg: dependency problems prevent removal of cuda-nvgraph-dev-10-0:

cuda-visual-tools-10-0 depends on cuda-nvgraph-dev-10-0 (>= 10.0.130).

cuda-samples-10-0 depends on cuda-nvgraph-dev-10-0.

cuda-libraries-dev-10-0 depends on cuda-nvgraph-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvgraph-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvgraph-dev-10-0

dpkg: dependency problems prevent removal of cuda-nvgraph-dev-10-1:

cuda-samples-10-1 depends on cuda-nvgraph-dev-10-1.

cuda-libraries-dev-10-1 depends on cuda-nvgraph-dev-10-1 (>= 10.1.243).

cuda-visual-tools-10-1 depends on cuda-nvgraph-dev-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-nvgraph-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvgraph-dev-10-1

dpkg: dependency problems prevent removal of cuda-nvjpeg-10-0:

cuda-nvjpeg-dev-10-0 depends on cuda-nvjpeg-10-0 ($\geq 10.0.130.1$).

dpkg: error processing package cuda-nvjpeg-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvjpeg-10-0

dpkg: dependency problems prevent removal of cuda-nvjpeg-10-1:

cuda-nvjpeg-dev-10-1 depends on cuda-nvjpeg-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-nvjpeg-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvjpeg-10-1

dpkg: dependency problems prevent removal of cuda-nvjpeg-dev-10-0:

cuda-visual-tools-10-0 depends on cuda-nvjpeg-dev-10-0 ($\geq 10.0.130$).

cuda-libraries-dev-10-0 depends on cuda-nvjpeg-dev-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-nvjpeg-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvjpeg-dev-10-0

dpkg: dependency problems prevent removal of cuda-nvjpeg-dev-10-1:

cuda-samples-10-1 depends on cuda-nvjpeg-dev-10-1.

cuda-libraries-dev-10-1 depends on cuda-nvjpeg-dev-10-1 ($\geq 10.1.243$).

cuda-visual-tools-10-1 depends on cuda-nvjpeg-dev-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-nvjpeg-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvjpeg-dev-10-1

dpkg: dependency problems prevent removal of cuda-nvml-dev-10-0:

cuda-toolkit-10-0 depends on cuda-nvml-dev-10-0 ($\geq 10.0.130$).

cuda-visual-tools-10-0 depends on cuda-nvml-dev-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-nvml-dev-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvml-dev-10-0

dpkg: dependency problems prevent removal of cuda-nvml-dev-10-1:

cuda-toolkit-10-1 depends on cuda-nvml-dev-10-1 ($\geq 10.1.243$).

cuda-visual-tools-10-1 depends on cuda-nvml-dev-10-1 ($\geq 10.1.243$).

dpkg: error processing package cuda-nvml-dev-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvml-dev-10-1

dpkg: dependency problems prevent removal of cuda-nvprof-10-0:

cuda-command-line-tools-10-0 depends on cuda-nvprof-10-0 ($\geq 10.0.130$).

dpkg: error processing package cuda-nvprof-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvprof-10-0

dpkg: dependency problems prevent removal of cuda-nvprof-10-1:
cuda-command-line-tools-10-1 depends on cuda-nvprof-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvprof-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvprof-10-1

dpkg: dependency problems prevent removal of cuda-nvprune-10-0:
cuda-compiler-10-0 depends on cuda-nvprune-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvprune-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvprune-10-0

dpkg: dependency problems prevent removal of cuda-nvprune-10-1:
cuda-compiler-10-1 depends on cuda-nvprune-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvprune-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvprune-10-1

dpkg: dependency problems prevent removal of cuda-nvrtc-10-0:
cuda-nvrtc-dev-10-0 depends on cuda-nvrtc-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvrtc-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvrtc-10-0

dpkg: dependency problems prevent removal of cuda-nvrtc-10-1:
cuda-nvrtc-dev-10-1 depends on cuda-nvrtc-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvrtc-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvrtc-10-1

dpkg: dependency problems prevent removal of cuda-nvrtc-dev-10-0:
cuda-visual-tools-10-0 depends on cuda-nvrtc-dev-10-0 (>= 10.0.130).
cuda-samples-10-0 depends on cuda-nvrtc-dev-10-0.
cuda-libraries-dev-10-0 depends on cuda-nvrtc-dev-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvrtc-dev-10-0 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvrtc-dev-10-0

dpkg: dependency problems prevent removal of cuda-nvrtc-dev-10-1:
cuda-samples-10-1 depends on cuda-nvrtc-dev-10-1.
cuda-libraries-dev-10-1 depends on cuda-nvrtc-dev-10-1 (>= 10.1.243).
cuda-visual-tools-10-1 depends on cuda-nvrtc-dev-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvrtc-dev-10-1 (--purge):
dependency problems - not removing

Errors were encountered while processing:

cuda-nvrtc-dev-10-1

dpkg: dependency problems prevent removal of cuda-nvtx-10-0:
cuda-command-line-tools-10-0 depends on cuda-nvtx-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvtx-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvtx-10-0

dpkg: dependency problems prevent removal of cuda-nvtx-10-1:

cuda-command-line-tools-10-1 depends on cuda-nvtx-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvtx-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvtx-10-1

dpkg: dependency problems prevent removal of cuda-nvvp-10-0:

cuda-visual-tools-10-0 depends on cuda-nvvp-10-0 (>= 10.0.130).

dpkg: error processing package cuda-nvvp-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvvp-10-0

dpkg: dependency problems prevent removal of cuda-nvvp-10-1:

cuda-visual-tools-10-1 depends on cuda-nvvp-10-1 (>= 10.1.243).

dpkg: error processing package cuda-nvvp-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-nvvp-10-1

dpkg: dependency problems prevent removal of cuda-samples-10-0:

cuda-documentation-10-0 depends on cuda-samples-10-0.

cuda-toolkit-10-0 depends on cuda-samples-10-0 (>= 10.0.130).

dpkg: error processing package cuda-samples-10-0 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-samples-10-0

dpkg: dependency problems prevent removal of cuda-samples-10-1:

cuda-toolkit-10-1 depends on cuda-samples-10-1 (>= 10.1.243).

cuda-documentation-10-1 depends on cuda-samples-10-1.

dpkg: error processing package cuda-samples-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-samples-10-1

dpkg: dependency problems prevent removal of cuda-sanitizer-api-10-1:

cuda-command-line-tools-10-1 depends on cuda-sanitizer-api-10-1 (>= 10.1.243).

dpkg: error processing package cuda-sanitizer-api-10-1 (--purge):

dependency problems - not removing

Errors were encountered while processing:

cuda-sanitizer-api-10-1

(Reading database ... 143750 files and directories currently installed.)

Removing cuda-toolkit-10-0 (10.0.130-1) ...

Purging configuration files for cuda-toolkit-10-0 (10.0.130-1) ...

(Reading database ... 143747 files and directories currently installed.)

Removing cuda-toolkit-10-1 (10.1.243-1) ...

Purging configuration files for cuda-toolkit-10-1 (10.1.243-1) ...

(Reading database ... 143744 files and directories currently installed.)

Removing cuda-tools-10-0 (10.0.130-1) ...

(Reading database ... 143741 files and directories currently installed.)

Removing cuda-tools-10-1 (10.1.243-1) ...
(Reading database ... 143738 files and directories currently installed.)
Removing cuda-visual-tools-10-0 (10.0.130-1) ...
Purging configuration files for cuda-visual-tools-10-0 (10.0.130-1) ...
(Reading database ... 140905 files and directories currently installed.)
Removing cuda-visual-tools-10-1 (10.1.243-1) ...
Purging configuration files for cuda-visual-tools-10-1 (10.1.243-1) ...
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'cuda-cusparse-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-npp-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvprune-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvprune-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nvprune-10-2' for glob 'cuda-*'
Note, selecting 'cuda-nvgraph-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvgraph-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nvgraph-10-2' for glob 'cuda-*'
Note, selecting 'cuda-cublas-dev-10-0' for glob 'cuda-*'
Note, selecting 'cuda-gdb-10-0' for glob 'cuda-*'
Note, selecting 'cuda-gdb-10-1' for glob 'cuda-*'
Note, selecting 'cuda-gdb-10-2' for glob 'cuda-*'
Note, selecting 'cuda-nsight-compute--10-0' for glob 'cuda-*'
Note, selecting 'cuda-visual-tools-10-0' for glob 'cuda-*'
Note, selecting 'cuda-visual-tools-10-1' for glob 'cuda-*'
Note, selecting 'cuda-visual-tools-10-2' for glob 'cuda-*'
Note, selecting 'cuda-curand-dev-10-0' for glob 'cuda-*'
Note, selecting 'cuda-curand-dev-10-1' for glob 'cuda-*'
Note, selecting 'cuda-curand-dev-10-2' for glob 'cuda-*'
Note, selecting 'cuda-cupti-10-0' for glob 'cuda-*'
Note, selecting 'cuda-cupti-10-1' for glob 'cuda-*'
Note, selecting 'cuda-cupti-10-2' for glob 'cuda-*'
Note, selecting 'cuda-curand-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-libraries-dev-10-0' for glob 'cuda-*'
Note, selecting 'cuda-libraries-dev-10-1' for glob 'cuda-*'
Note, selecting 'cuda-libraries-dev-10-2' for glob 'cuda-*'
Note, selecting 'cuda-cublas-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-repo-ubuntu1204' for glob 'cuda-*'
Note, selecting 'cuda-nvjpeg-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvjpeg-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nvjpeg-10-2' for glob 'cuda-*'
Note, selecting 'cuda-nvrtc-dev-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvrtc-dev-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nvrtc-dev-10-2' for glob 'cuda-*'
Note, selecting 'cuda-minimal-build-10-0' for glob 'cuda-*'
Note, selecting 'cuda-minimal-build-10-1' for glob 'cuda-*'
Note, selecting 'cuda-minimal-build-10-2' for glob 'cuda-*'
Note, selecting 'cuda-drivers' for glob 'cuda-*'
Note, selecting 'cuda-repo-ubuntu1404' for glob 'cuda-*'
Note, selecting 'cuda-repo-ubuntu1410' for glob 'cuda-*'
Note, selecting 'cuda-cufft-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-repo-ubuntu1504' for glob 'cuda-*'
Note, selecting 'cuda-license-7-5' for glob 'cuda-*'
Note, selecting 'cuda-cupti-dev-10-2' for glob 'cuda-*'
Note, selecting 'cuda-libraries-10-0' for glob 'cuda-*'
Note, selecting 'cuda-libraries-10-1' for glob 'cuda-*'
Note, selecting 'cuda-libraries-10-2' for glob 'cuda-*'
Note, selecting 'cuda-runtime-10-0' for glob 'cuda-*

Note, selecting 'cuda-runtime-10-1' for glob 'cuda-*

Note, selecting 'cuda-runtime-10-2' for glob 'cuda-*

Note, selecting 'cuda-cusolver-10-0' for glob 'cuda-*

Note, selecting 'cuda-cusolver-10-1' for glob 'cuda-*

Note, selecting 'cuda-cusolver-10-2' for glob 'cuda-*

Note, selecting 'cuda-repo-ubuntu1804' for glob 'cuda-*

Note, selecting 'cuda-drivers-diagnostic' for glob 'cuda-*

Note, selecting 'cuda-cusparse-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-cusparse-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-cusparse-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvrtc-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvrtc-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvrtc-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvjpeg-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvjpeg-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvjpeg-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-cufft-10-0' for glob 'cuda-*

Note, selecting 'cuda-cufft-10-1' for glob 'cuda-*

Note, selecting 'cuda-cufft-10-2' for glob 'cuda-*

Note, selecting 'cuda-nsight-systems-10-1' for glob 'cuda-*

Note, selecting 'cuda-nsight-systems-10-2' for glob 'cuda-*

Note, selecting 'cuda-cusparse-10-0' for glob 'cuda-*

Note, selecting 'cuda-cusparse-10-1' for glob 'cuda-*

Note, selecting 'cuda-cusparse-10-2' for glob 'cuda-*

Note, selecting 'cuda-npp-10-0' for glob 'cuda-*

Note, selecting 'cuda-npp-10-1' for glob 'cuda-*

Note, selecting 'cuda-npp-10-2' for glob 'cuda-*

Note, selecting 'cuda-tools-10-0' for glob 'cuda-*

Note, selecting 'cuda-tools-10-1' for glob 'cuda-*

Note, selecting 'cuda-tools-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvtx-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvtx-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvtx-10-2' for glob 'cuda-*

Note, selecting 'cuda-cudart-10-0' for glob 'cuda-*

Note, selecting 'cuda-cudart-10-1' for glob 'cuda-*

Note, selecting 'cuda-cudart-10-2' for glob 'cuda-*

Note, selecting 'cuda-license-10-0' for glob 'cuda-*

Note, selecting 'cuda-license-10-1' for glob 'cuda-*

Note, selecting 'cuda-license-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvdisasm-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvdisasm-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvdisasm-10-2' for glob 'cuda-*

Note, selecting 'cuda-samples-10-0' for glob 'cuda-*

Note, selecting 'cuda-samples-10-1' for glob 'cuda-*

Note, selecting 'cuda-samples-10-2' for glob 'cuda-*

Note, selecting 'cuda-documentation-10-0' for glob 'cuda-*

Note, selecting 'cuda-documentation-10-1' for glob 'cuda-*

Note, selecting 'cuda-documentation-10-2' for glob 'cuda-*

Note, selecting 'cuda-cusolver-cross-qnx-10-0' for glob 'cuda-*

Note, selecting 'cuda-cross-qnx' for glob 'cuda-*

Note, selecting 'cuda-compat-10-0' for glob 'cuda-*

Note, selecting 'cuda-compat-10-1' for glob 'cuda-*

Note, selecting 'cuda-compat-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvcc-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvcc-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvcc-10-2' for glob 'cuda-*

Note, selecting 'cuda-repo-ubuntu1404-7-5-local' for glob 'cuda-*

Note, selecting 'cuda-repo-ubuntu1404-7-5-local' for glob 'cuda-*

Note, selecting 'cuda-nvvp-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvvp-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvvp-10-2' for glob 'cuda-*

Note, selecting 'cuda-cross-qnx-10-0' for glob 'cuda-*

Note, selecting 'cuda-toolkit-10-0' for glob 'cuda-*

Note, selecting 'cuda-toolkit-10-1' for glob 'cuda-*

Note, selecting 'cuda-toolkit-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvgraph-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvgraph-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvgraph-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-cudart-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-cudart-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-cudart-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-nvml-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-nvml-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-nvml-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-gpu-library-advisor-10-0' for glob 'cuda-*

Note, selecting 'cuda-gpu-library-advisor-10-1' for glob 'cuda-*

Note, selecting 'cuda-cublas-10-0' for glob 'cuda-*

Note, selecting 'cuda-core-10-0' for glob 'cuda-*

Note, selecting 'cuda-core-10-1' for glob 'cuda-*

Note, selecting 'cuda-core-10-2' for glob 'cuda-*

Note, selecting 'cuda-cusolver-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-cusolver-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-cusolver-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-driver-cross-qnx-10-0' for glob 'cuda-*

Note, selecting 'cuda-sanitizer-api-10-1' for glob 'cuda-*

Note, selecting 'cuda-sanitizer-api-10-2' for glob 'cuda-*

Note, selecting 'cuda-compiler-10-0' for glob 'cuda-*

Note, selecting 'cuda-compiler-10-1' for glob 'cuda-*

Note, selecting 'cuda-compiler-10-2' for glob 'cuda-*

Note, selecting 'cuda-demo-suite-10-0' for glob 'cuda-*

Note, selecting 'cuda-demo-suite-10-1' for glob 'cuda-*

Note, selecting 'cuda-demo-suite-10-2' for glob 'cuda-*

Note, selecting 'cuda-npp-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-npp-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-npp-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-nsight-10-0' for glob 'cuda-*

Note, selecting 'cuda-nsight-10-1' for glob 'cuda-*

Note, selecting 'cuda-nsight-10-2' for glob 'cuda-*

Note, selecting 'cuda-curand-10-0' for glob 'cuda-*

Note, selecting 'cuda-curand-10-1' for glob 'cuda-*

Note, selecting 'cuda-curand-10-2' for glob 'cuda-*

Note, selecting 'cuda-command-line-tools-10-0' for glob 'cuda-*

Note, selecting 'cuda-command-line-tools-10-1' for glob 'cuda-*

Note, selecting 'cuda-command-line-tools-10-2' for glob 'cuda-*

Note, selecting 'cuda-cufft-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-cufft-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-cufft-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-driver-dev-10-0' for glob 'cuda-*

Note, selecting 'cuda-driver-dev-10-1' for glob 'cuda-*

Note, selecting 'cuda-driver-dev-10-2' for glob 'cuda-*

Note, selecting 'cuda-repo-ubuntu1504-7-5-local' for glob 'cuda-*

Note, selecting 'cuda-10-0' for glob 'cuda-*

Note, selecting 'cuda-10-1' for glob 'cuda-*

Note, selecting 'cuda-10-2' for glob 'cuda-*

Note, selecting 'cuda-misc-headers-cross-qnx-10-0' for glob 'cuda-*

Note, selecting 'cuda-memcheck-10-0' for glob 'cuda-*

Note, selecting 'cuda-memcheck-10-1' for glob 'cuda-*'
Note, selecting 'cuda-memcheck-10-2' for glob 'cuda-*'
Note, selecting 'cuda-cudart-cross-qnx-10-0' for glob 'cuda-*'
Note, selecting 'cuda-gdb-src-10-0' for glob 'cuda-*'
Note, selecting 'cuda-gdb-src-10-1' for glob 'cuda-*'
Note, selecting 'cuda-gdb-src-10-2' for glob 'cuda-*'
Note, selecting 'cuda-misc-headers-10-0' for glob 'cuda-*'
Note, selecting 'cuda-misc-headers-10-1' for glob 'cuda-*'
Note, selecting 'cuda-misc-headers-10-2' for glob 'cuda-*'
Note, selecting 'cuda-cuobjdump-10-0' for glob 'cuda-*'
Note, selecting 'cuda-cuobjdump-10-1' for glob 'cuda-*'
Note, selecting 'cuda-cuobjdump-10-2' for glob 'cuda-*'
Note, selecting 'cuda-nsight-compute-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nsight-compute-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nsight-compute-10-2' for glob 'cuda-*'
Note, selecting 'cuda-nvprof-10-0' for glob 'cuda-*'
Note, selecting 'cuda-nvprof-10-1' for glob 'cuda-*'
Note, selecting 'cuda-nvprof-10-2' for glob 'cuda-*'
Package 'cuda-license-7-5' is not installed, so not removed
Package 'cuda-repo-ubuntu1204' is not installed, so not removed
Package 'cuda-repo-ubuntu1404' is not installed, so not removed
Package 'cuda-repo-ubuntu1404-7-5-local' is not installed, so not removed
Package 'cuda-repo-ubuntu1410' is not installed, so not removed
Package 'cuda-repo-ubuntu1504' is not installed, so not removed
Package 'cuda-repo-ubuntu1504-7-5-local' is not installed, so not removed
Package 'cuda-cudart-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-driver-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-misc-headers-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-cusolver-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-cublas-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-cufft-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-curand-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-cusparse-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-npp-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-10-0' is not installed, so not removed
Package 'cuda-10-1' is not installed, so not removed
Package 'cuda-10-2' is not installed, so not removed
Package 'cuda-command-line-tools-10-2' is not installed, so not removed
Package 'cuda-compat-10-0' is not installed, so not removed
Package 'cuda-compat-10-1' is not installed, so not removed
Package 'cuda-compiler-10-2' is not installed, so not removed
Package 'cuda-core-10-0' is not installed, so not removed
Package 'cuda-core-10-1' is not installed, so not removed
Package 'cuda-core-10-2' is not installed, so not removed
Package 'cuda-cross-qnx-10-0' is not installed, so not removed
Package 'cuda-cross-qnx' is not installed, so not removed
Package 'cuda-cudart-10-2' is not installed, so not removed
Package 'cuda-cudart-dev-10-2' is not installed, so not removed
Package 'cuda-cufft-10-2' is not installed, so not removed
Package 'cuda-cufft-dev-10-2' is not installed, so not removed
Package 'cuda-cuobjdump-10-2' is not installed, so not removed
Package 'cuda-cupti-10-2' is not installed, so not removed
Package 'cuda-cupti-dev-10-2' is not installed, so not removed
Package 'cuda-curand-10-2' is not installed, so not removed
Package 'cuda-curand-dev-10-2' is not installed, so not removed
Package 'cuda-cusolver-10-2' is not installed, so not removed
Package 'cuda-cusolver-dev-10-2' is not installed, so not removed
Package 'cuda-cusparse-10-2' is not installed. so not removed

Package 'cuda-cusparse-dev-10-2' is not installed, so not removed
Package 'cuda-demo-suite-10-0' is not installed, so not removed
Package 'cuda-demo-suite-10-1' is not installed, so not removed
Package 'cuda-demo-suite-10-2' is not installed, so not removed
Package 'cuda-documentation-10-2' is not installed, so not removed
Package 'cuda-driver-dev-10-2' is not installed, so not removed
Package 'cuda-drivers-diagnostic' is not installed, so not removed
Package 'cuda-gdb-10-2' is not installed, so not removed
Package 'cuda-gdb-src-10-0' is not installed, so not removed
Package 'cuda-gdb-src-10-1' is not installed, so not removed
Package 'cuda-gdb-src-10-2' is not installed, so not removed
Package 'cuda-libraries-10-0' is not installed, so not removed
Package 'cuda-libraries-10-1' is not installed, so not removed
Package 'cuda-libraries-10-2' is not installed, so not removed
Package 'cuda-libraries-dev-10-2' is not installed, so not removed
Package 'cuda-license-10-2' is not installed, so not removed
Package 'cuda-memcheck-10-2' is not installed, so not removed
Package 'cuda-minimal-build-10-0' is not installed, so not removed
Package 'cuda-minimal-build-10-1' is not installed, so not removed
Package 'cuda-minimal-build-10-2' is not installed, so not removed
Package 'cuda-misc-headers-10-2' is not installed, so not removed
Package 'cuda-npp-10-2' is not installed, so not removed
Package 'cuda-npp-dev-10-2' is not installed, so not removed
Package 'cuda-nsight-10-2' is not installed, so not removed
Package 'cuda-nsight-compute--10-0' is not installed, so not removed
Package 'cuda-nsight-compute-10-2' is not installed, so not removed
Package 'cuda-nsight-systems-10-2' is not installed, so not removed
Package 'cuda-nvcc-10-2' is not installed, so not removed
Package 'cuda-nvdisasm-10-2' is not installed, so not removed
Package 'cuda-nvgraph-10-2' is not installed, so not removed
Package 'cuda-nvgraph-dev-10-2' is not installed, so not removed
Package 'cuda-nvjpeg-10-2' is not installed, so not removed
Package 'cuda-nvjpeg-dev-10-2' is not installed, so not removed
Package 'cuda-nvml-dev-10-2' is not installed, so not removed
Package 'cuda-nvprof-10-2' is not installed, so not removed
Package 'cuda-nvprune-10-2' is not installed, so not removed
Package 'cuda-nvrtc-10-2' is not installed, so not removed
Package 'cuda-nvrtc-dev-10-2' is not installed, so not removed
Package 'cuda-nvtx-10-2' is not installed, so not removed
Package 'cuda-nvvp-10-2' is not installed, so not removed
Package 'cuda-repo-ubuntu1804' is not installed, so not removed
Package 'cuda-runtime-10-0' is not installed, so not removed
Package 'cuda-runtime-10-1' is not installed, so not removed
Package 'cuda-runtime-10-2' is not installed, so not removed
Package 'cuda-samples-10-2' is not installed, so not removed
Package 'cuda-sanitizer-api-10-2' is not installed, so not removed
Package 'cuda-toolkit-10-0' is not installed, so not removed
Package 'cuda-toolkit-10-1' is not installed, so not removed
Package 'cuda-toolkit-10-2' is not installed, so not removed
Package 'cuda-tools-10-0' is not installed, so not removed
Package 'cuda-tools-10-1' is not installed, so not removed
Package 'cuda-tools-10-2' is not installed, so not removed
Package 'cuda-visual-tools-10-0' is not installed, so not removed
Package 'cuda-visual-tools-10-1' is not installed, so not removed
Package 'cuda-visual-tools-10-2' is not installed, so not removed
Package 'cuda-compatible-10-2' is not installed, so not removed
Package 'cuda-drivers' is not installed, so not removed

The following packages were automatically installed and are no longer required:

```
default-jre dkms freeglut3 freeglut3-dev keyboard-configuration libargon2-0
libcap2 libcryptsetup12 libdevmapper1.02.1 libfontenc1 libgtk2.0-0
libgtk2.0-common libidn11 libip4tc0 libjansson4 libpam-systemd
libpolkit-agent-1-0 libpolkit-backend-1-0 libpolkit-gobject-1-0 libxfont2
libxi-dev libxkbfile1 libxmu-dev libxmu-headers libxnvctrl0
nsight-compute-2019.5.0 nsight-systems-2019.5.2 ocl-icd-ocl-dev
opencl-c-headers openjdk-11-jre policykit-1 policykit-1-gnome python3-xkit
screen-resolution-extra systemd systemd-sysv udev x11-xkb-utils
xserver-common xserver-xorg-core-hwe-18.04
```

Use 'apt autoremove' to remove them.

The following packages will be REMOVED:

```
cuda-command-line-tools-10-0 cuda-command-line-tools-10-1 cuda-compiler-10-0
cuda-compiler-10-1 cuda-cublas-10-0 cuda-cublas-dev-10-0 cuda-cudart-10-0
cuda-cudart-10-1 cuda-cudart-dev-10-0 cuda-cudart-dev-10-1 cuda-cufft-10-0
cuda-cufft-10-1 cuda-cufft-dev-10-0 cuda-cufft-dev-10-1 cuda-cuobjdump-10-0
cuda-cuobjdump-10-1 cuda-cupti-10-0 cuda-cupti-10-1 cuda-curand-10-0
cuda-curand-10-1 cuda-curand-dev-10-0 cuda-curand-dev-10-1
cuda-cusolver-10-0 cuda-cusolver-10-1 cuda-cusolver-dev-10-0
cuda-cusolver-dev-10-1 cuda-cusparse-10-0 cuda-cusparse-10-1
cuda-cusparse-dev-10-0 cuda-cusparse-dev-10-1 cuda-documentation-10-0
cuda-documentation-10-1 cuda-driver-dev-10-0 cuda-driver-dev-10-1
cuda-gdb-10-0 cuda-gdb-10-1 cuda-gpu-library-advisor-10-0
cuda-gpu-library-advisor-10-1 cuda-libraries-dev-10-0
cuda-libraries-dev-10-1 cuda-license-10-0 cuda-license-10-1
cuda-memcheck-10-0 cuda-memcheck-10-1 cuda-misc-headers-10-0
cuda-misc-headers-10-1 cuda-npp-10-0 cuda-npp-10-1 cuda-npp-dev-10-0
cuda-npp-dev-10-1 cuda-nsight-10-0 cuda-nsight-10-1 cuda-nsight-compute-10-0
cuda-nsight-compute-10-1 cuda-nsight-systems-10-1 cuda-nvcc-10-0
cuda-nvcc-10-1 cuda-nvdisasm-10-0 cuda-nvdisasm-10-1 cuda-nvgraph-10-0
cuda-nvgraph-10-1 cuda-nvgraph-dev-10-0 cuda-nvgraph-dev-10-1
cuda-nvjpeg-10-0 cuda-nvjpeg-10-1 cuda-nvjpeg-dev-10-0 cuda-nvjpeg-dev-10-1
cuda-nvml-dev-10-0 cuda-nvml-dev-10-1 cuda-nvprof-10-0 cuda-nvprof-10-1
cuda-nvprune-10-0 cuda-nvprune-10-1 cuda-nvrtc-10-0 cuda-nvrtc-10-1
cuda-nvrtc-dev-10-0 cuda-nvrtc-dev-10-1 cuda-nvtx-10-0 cuda-nvtx-10-1
cuda-nvvp-10-0 cuda-nvvp-10-1 cuda-samples-10-0 cuda-samples-10-1
cuda-sanitizer-api-10-1 libcublas-dev libcublas10
```

0 upgraded, 0 newly installed, 86 to remove and 29 not upgraded.

After this operation, 5,567 MB disk space will be freed.

(Reading database ... 138072 files and directories currently installed.)

Removing cuda-command-line-tools-10-0 (10.0.130-1) ...

Removing cuda-command-line-tools-10-1 (10.1.243-1) ...

Removing cuda-compiler-10-0 (10.0.130-1) ...

Removing cuda-compiler-10-1 (10.1.243-1) ...

Removing cuda-libraries-dev-10-0 (10.0.130-1) ...

Removing cuda-documentation-10-0 (10.0.130-1) ...

Removing cuda-samples-10-0 (10.0.130-1) ...

Removing cuda-cublas-dev-10-0 (10.0.130-1) ...

Removing cuda-cublas-10-0 (10.0.130-1) ...

Removing cuda-cupti-10-0 (10.0.130-1) ...

Removing cuda-cudart-dev-10-0 (10.0.130-1) ...

Removing cuda-cudart-10-0 (10.0.130-1) ...

Removing cuda-cupti-10-1 (10.1.243-1) ...

Removing cuda-documentation-10-1 (10.1.243-1) ...

Removing cuda-samples-10-1 (10.1.243-1) ...

Removing cuda-cufft-dev-10-0 (10.0.130-1) ...

Removing cuda-cufft-10-0 (10.0.130-1) ...

Removing cuda-libraries-dev-10-1 (10.1.243-1) ...

Removing cuda-cufft-dev-10-1 (10.1.243-1) ...
Removing cuda-cufft-10-1 (10.1.243-1) ...
Removing cuda-gdb-10-0 (10.0.130-1) ...
Removing cuda-cuobjdump-10-0 (10.0.130-1) ...
Removing cuda-gdb-10-1 (10.1.243-1) ...
Removing cuda-cuobjdump-10-1 (10.1.243-1) ...
Removing cuda-curand-dev-10-0 (10.0.130-1) ...
Removing cuda-curand-10-0 (10.0.130-1) ...
Removing cuda-curand-dev-10-1 (10.1.243-1) ...
Removing cuda-curand-10-1 (10.1.243-1) ...
Removing cuda-cusolver-dev-10-0 (10.0.130-1) ...
Removing cuda-cusolver-10-0 (10.0.130-1) ...
Removing cuda-cusolver-dev-10-1 (10.1.243-1) ...
Removing cuda-cusolver-10-1 (10.1.243-1) ...
Removing cuda-cusparse-dev-10-0 (10.0.130-1) ...
Removing cuda-cusparse-10-0 (10.0.130-1) ...
Removing cuda-cusparse-dev-10-1 (10.1.243-1) ...
Removing cuda-cusparse-10-1 (10.1.243-1) ...
Removing cuda-driver-dev-10-0 (10.0.130-1) ...
Removing cuda-gpu-library-advisor-10-0 (10.0.130-1) ...
Removing cuda-gpu-library-advisor-10-1 (10.1.243-1) ...
Removing cuda-nvvp-10-0 (10.0.130-1) ...
Removing cuda-nvtx-10-0 (10.0.130-1) ...
Removing libcublas-dev (10.2.1.243-1) ...
Removing libcublas10 (10.2.1.243-1) ...
Removing cuda-sanitizer-api-10-1 (10.1.243-1) ...
Removing cuda-memcheck-10-0 (10.0.130-1) ...
Removing cuda-memcheck-10-1 (10.1.243-1) ...
Removing cuda-nvcc-10-0 (10.0.130-1) ...
Removing cuda-misc-headers-10-0 (10.0.130-1) ...
Removing cuda-nvcc-10-1 (10.1.243-1) ...
Removing cuda-misc-headers-10-1 (10.1.243-1) ...
Removing cuda-npp-dev-10-0 (10.0.130-1) ...
Removing cuda-npp-10-0 (10.0.130-1) ...
Removing cuda-npp-dev-10-1 (10.1.243-1) ...
Removing cuda-npp-10-1 (10.1.243-1) ...
Removing cuda-nsight-10-0 (10.0.130-1) ...
Removing cuda-nsight-10-1 (10.1.243-1) ...
Removing cuda-nsight-compute-10-0 (10.0.130-1) ...
Removing cuda-nsight-compute-10-1 (10.1.243-1) ...
Removing cuda-nsight-systems-10-1 (10.1.243-1) ...
Removing cuda-nvdisasm-10-0 (10.0.130-1) ...
Removing cuda-nvdisasm-10-1 (10.1.243-1) ...
Removing cuda-nvgraph-dev-10-0 (10.0.130-1) ...
Removing cuda-nvgraph-10-0 (10.0.130-1) ...
Removing cuda-nvgraph-dev-10-1 (10.1.243-1) ...
Removing cuda-nvgraph-10-1 (10.1.243-1) ...
Removing cuda-nvjpeg-dev-10-0 (10.0.130.1-1) ...
Removing cuda-nvjpeg-10-0 (10.0.130.1-1) ...
Removing cuda-nvjpeg-dev-10-1 (10.1.243-1) ...
Removing cuda-nvjpeg-10-1 (10.1.243-1) ...
Removing cuda-nvml-dev-10-0 (10.0.130-1) ...
Removing cuda-nvml-dev-10-1 (10.1.243-1) ...
Removing cuda-nvprof-10-0 (10.0.130-1) ...
Removing cuda-nvprof-10-1 (10.1.243-1) ...
Removing cuda-nvprune-10-0 (10.0.130-1) ...
Removing cuda-nvprune-10-1 (10.1.243-1) ...
Removing cuda-nvrtc-dev-10-0 (10.0.130-1) ...


```

Removing cuda-nvrtc-dev-10-0 (10.0.130-1) ...
Removing cuda-nvrtc-10-0 (10.0.130-1) ...
Removing cuda-nvrtc-dev-10-1 (10.1.243-1) ...
Removing cuda-nvrtc-10-1 (10.1.243-1) ...
Removing cuda-nvtx-10-1 (10.1.243-1) ...
Removing cuda-nvvp-10-1 (10.1.243-1) ...
Removing cuda-cudart-dev-10-1 (10.1.243-1) ...
Removing cuda-cudart-10-1 (10.1.243-1) ...
Removing cuda-driver-dev-10-1 (10.1.243-1) ...
Removing cuda-license-10-0 (10.0.130-1) ...
Removing cuda-license-10-1 (10.1.243-1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
/sbin/ldconfig.real: /usr/local/lib/python3.6/dist-packages/ideep4py/lib/libmkldnn.so.0 is not a symbolic link

```

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages will be REMOVED:

```

default-jre dkms freeglut3 freeglut3-dev keyboard-configuration libargon2-0
libcap2 libcryptsetup12 libdevmapper1.02.1 libfontenc1 libgtk2.0-0
libgtk2.0-common libidn11 libip4tc0 libjansson4 libpam-systemd
libpolkit-agent-1-0 libpolkit-backend-1-0 libpolkit-gobject-1-0 libxfont2
libxi-dev libxkbfile1 libxmu-dev libxmu-headers libxnvctrl0
nsight-compute-2019.5.0 nsight-systems-2019.5.2 ocl-icd-ocl-dev
ocl-icd-headers openjdk-11-jre policykit-1 policykit-1-gnome python3-xkit
screen-resolution-extra systemd systemd-sysv udev x11-xkb-utils
xserver-common xserver-xorg-core-hwe-18.04

```

0 upgraded, 0 newly installed, 40 to remove and 29 not upgraded.

After this operation, 538 MB disk space will be freed.

(Reading database ... 121103 files and directories currently installed.)

Removing default-jre (2:1.11-68ubuntu1~18.04.1) ...

Removing dkms (2.3-3ubuntu9.7) ...

Removing freeglut3-dev:amd64 (2.8.1-3) ...

Removing freeglut3:amd64 (2.8.1-3) ...

Removing xserver-xorg-core-hwe-18.04 (2:1.20.5+git20191008-0ubuntu1~18.04.1) ...

Removing keyboard-configuration (1.178ubuntu2.9) ...

Removing screen-resolution-extra (0.17.3) ...

Removing policykit-1-gnome (0.105-6ubuntu2) ...

Removing policykit-1 (0.105-20ubuntu0.18.04.5) ...

Removing libpam-systemd:amd64 (237-3ubuntu10.41) ...

Removing systemd-sysv (237-3ubuntu10.41) ...

Removing systemd (237-3ubuntu10.41) ...

Removing libcryptsetup12:amd64 (2:2.0.2-1ubuntu1.1) ...

Removing libargon2-0:amd64 (0~20161029-1.1) ...

Removing libcap2:amd64 (1:2.25-1.2) ...

Removing libdevmapper1.02.1:amd64 (2:1.02.145-4.1ubuntu3.18.04.3) ...

Removing libxfont2:amd64 (1:2.0.3-1) ...

Removing libfontenc1:amd64 (1:1.1.3-1) ...

Removing libgtk2.0-0:amd64 (2.24.32-1ubuntu1) ...

Removing libgtk2.0-common (2.24.32-1ubuntu1) ...

Removing libidn11:amd64 (1.33-2.1ubuntu1.2) ...

Removing libip4tc0:amd64 (1.6.1-2ubuntu2) ...

Removing libjansson4:amd64 (2.11-1) ...

Removing libpolkit-agent-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...

Removing libpolkit-backend-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...

!wget https://developer.nvidia.com/compute/cuda/9.2/Prod/local_installers/cuda-repo-ubuntu1604-9-2-local_9.2.88-1

!dpkg -i cuda-repo-ubuntu1604-9-2-local_9.2.88-1_amd64.deb

!apt-key add /var/cuda-repo-9-2-local/7fa2af80.pub

```
!apt-get update  
!apt-get install cuda-9.2
```



```
--2020-05-29 06:23:20-- https://developer.nvidia.com/compute/cuda/9.2/Prod/local\_installers/cuda-repo-ubun
Resolving developer.nvidia.com (developer.nvidia.com)... 152.199.16.29
Connecting to developer.nvidia.com (developer.nvidia.com)|152.199.16.29|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://developer.download.nvidia.com/compute/cuda/9.2/secure/Prod/local\_installers/cuda-repo-ubun
--2020-05-29 06:23:20-- https://developer.download.nvidia.com/compute/cuda/9.2/secure/Prod/local\_installers/cuda-repo-ubun
Resolving developer.download.nvidia.com (developer.download.nvidia.com)... 152.199.20.126
Connecting to developer.download.nvidia.com (developer.download.nvidia.com)|152.199.20.126|:443... connected
HTTP request sent, awaiting response... 200 OK
Length: 1267391958 (1.2G) [application/x-deb]
Saving to: 'cuda-repo-ubuntu1604-9-2-local_9.2.88-1_amd64.deb'
```

```
cuda-repo-ubuntu160 100%[=====>] 1.18G 219MB/s in 5.6s
```

```
2020-05-29 06:23:26 (214 MB/s) - 'cuda-repo-ubuntu1604-9-2-local_9.2.88-1_amd64.deb' saved [1267391958/1
```

```
Selecting previously unselected package cuda-repo-ubuntu1604-9-2-local.
(Reading database ... 119073 files and directories currently installed.)
Preparing to unpack cuda-repo-ubuntu1604-9-2-local_9.2.88-1_amd64.deb ...
Unpacking cuda-repo-ubuntu1604-9-2-local (9.2.88-1) ...
Setting up cuda-repo-ubuntu1604-9-2-local (9.2.88-1) ...
OK
Get:1 file:/var/cuda-repo-9-2-local InRelease
Ign:1 file:/var/cuda-repo-9-2-local InRelease
Get:2 file:/var/cuda-repo-9-2-local Release [574 B]
Get:2 file:/var/cuda-repo-9-2-local Release [574 B]
Get:3 file:/var/cuda-repo-9-2-local Release.gpg [819 B]
Get:3 file:/var/cuda-repo-9-2-local Release.gpg [819 B]
Hit:4 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic InRelease
Hit:5 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:6 http://archive.ubuntu.com/ubuntu bionic InRelease
Hit:7 http://ppa.launchpad.net/marutter/c2d4u3.5/ubuntu bionic InRelease
Hit:8 http://archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:9 http://archive.ubuntu.com/ubuntu bionic-backports InRelease
Get:10 file:/var/cuda-repo-9-2-local Packages [18.7 kB]
Ign:11 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86\_64 InRelease
Hit:12 https://cloud.r-project.org/bin/linux/ubuntu bionic-cran35/ InRelease
Ign:13 https://developer.download.nvidia.com/compute/machine-learning/repos/ubuntu1804/x86\_64 InRelease
Hit:14 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86\_64 Release
Hit:15 https://developer.download.nvidia.com/compute/machine-learning/repos/ubuntu1804/x86\_64 Release
Reading package lists... Done
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'cuda-9-2' for regex 'cuda-9.2'
Note, selecting 'libcuda-9.2-1' for regex 'cuda-9.2'
The following additional packages will be installed:
  cuda-command-line-tools-9-2 cuda-compiler-9-2 cuda-cublas-9-2
  cuda-cublas-dev-9-2 cuda-cudart-9-2 cuda-cudart-dev-9-2 cuda-cufft-9-2
  cuda-cufft-dev-9-2 cuda-cuobjdump-9-2 cuda-cupti-9-2 cuda-curand-9-2
  cuda-curand-dev-9-2 cuda-cusolver-9-2 cuda-cusolver-dev-9-2
  cuda-cusparse-9-2 cuda-cusparse-dev-9-2 cuda-demo-suite-9-2
  cuda-documentation-9-2 cuda-driver-dev-9-2 cuda-drivers cuda-gdb-9-2
  cuda-gpu-library-advisor-9-2 cuda-libraries-9-2 cuda-libraries-dev-9-2
  cuda-license-9-2 cuda-memcheck-9-2 cuda-misc-headers-9-2 cuda-npp-9-2
  cuda-npp-dev-9-2 cuda-nsight-9-2 cuda-nvcc-9-2 cuda-nvdisasm-9-2
  cuda-nvgraph-9-2 cuda-nvgraph-dev-9-2 cuda-nvml-dev-9-2 cuda-nvprof-9-2
```

cuda-nvprune-9-2 cuda-nvrtc-9-2 cuda-nvrtc-dev-9-2 cuda-nvtx-9-2
 cuda-nvvp-9-2 cuda-runtime-9-2 cuda-samples-9-2 cuda-toolkit-9-2
 cuda-tools-9-2 cuda-visual-tools-9-2 default-jre dkms dmsetup fakeroot
 fonts-dejavu-core fonts-dejavu-extra freeglut3 freeglut3-dev
 keyboard-configuration libargon2-0 libatk-wrapper-java
 libatk-wrapper-java-jni libcap2 libcryptsetup12 libdevmapper1.02.1
 libfakeroot libfontenc1 libgail-common libgail18 libgtk2.0-0 libgtk2.0-bin
 libgtk2.0-common libidn11 libip4tc0 libjansson4 libnss-systemd
 libnvidia-cfg1-440 libnvidia-common-440 libnvidia-compute-440
 libnvidia-decode-440 libnvidia-encode-440 libnvidia-extra-440
 libnvidia-fbc1-440 libnvidia-gl-440 libnvidia-ifr1-440 libpam-systemd
 libpolkit-agent-1-0 libpolkit-backend-1-0 libpolkit-gobject-1-0 libxfont2
 libxi-dev libxkbfile1 libxmu-dev libxmu-headers libxnvctrl0 libxxf86dga1
 networkd-dispatcher nvidia-compute-utils-440 nvidia-dkms-440
 nvidia-driver-440 nvidia-kernel-common-440 nvidia-kernel-source-440
 nvidia-modprobe nvidia-prime nvidia-settings nvidia-utils-440 openjdk-11-jre
 policykit-1 policykit-1-gnome python3-xkit screen-resolution-extra systemd
 systemd-sysv udev x11-utils x11-xkb-utils xfonts-base xfonts-encodings
 xfonts-utils xserver-common xserver-xorg-core-hwe-18.04
 xserver-xorg-video-nvidia-440

Suggested packages:

python3-appport menu gvfs iw | wireless-tools systemd-container mesa-utils
 xfs | xserver xfonts-100dpi | xfonts-75dpi xfonts-scalable

Recommended packages:

libnvidia-compute-440:i386 libnvidia-decode-440:i386
 libnvidia-encode-440:i386 libnvidia-ifr1-440:i386 libnvidia-fbc1-440:i386
 libnvidia-gl-440:i386

The following NEW packages will be installed:

cuda-9-2 cuda-command-line-tools-9-2 cuda-compiler-9-2 cuda-cublas-9-2
 cuda-cublas-dev-9-2 cuda-cudart-9-2 cuda-cudart-dev-9-2 cuda-cufft-9-2
 cuda-cufft-dev-9-2 cuda-cuobjdump-9-2 cuda-cupti-9-2 cuda-curand-9-2
 cuda-curand-dev-9-2 cuda-cusolver-9-2 cuda-cusolver-dev-9-2
 cuda-cusparse-9-2 cuda-cusparse-dev-9-2 cuda-demo-suite-9-2
 cuda-documentation-9-2 cuda-driver-dev-9-2 cuda-drivers cuda-gdb-9-2
 cuda-gpu-library-advisor-9-2 cuda-libraries-9-2 cuda-libraries-dev-9-2
 cuda-license-9-2 cuda-memcheck-9-2 cuda-misc-headers-9-2 cuda-npp-9-2
 cuda-npp-dev-9-2 cuda-nsight-9-2 cuda-nvcc-9-2 cuda-nvdisasm-9-2
 cuda-nvgraph-9-2 cuda-nvgraph-dev-9-2 cuda-nvml-dev-9-2 cuda-nvprof-9-2
 cuda-nvprune-9-2 cuda-nvrtc-9-2 cuda-nvrtc-dev-9-2 cuda-nvtx-9-2
 cuda-nvvp-9-2 cuda-runtime-9-2 cuda-samples-9-2 cuda-toolkit-9-2
 cuda-tools-9-2 cuda-visual-tools-9-2 default-jre dkms dmsetup fakeroot
 fonts-dejavu-core fonts-dejavu-extra freeglut3 freeglut3-dev
 keyboard-configuration libargon2-0 libatk-wrapper-java
 libatk-wrapper-java-jni libcap2 libcryptsetup12 libdevmapper1.02.1
 libfakeroot libfontenc1 libgail-common libgail18 libgtk2.0-0 libgtk2.0-bin
 libgtk2.0-common libidn11 libip4tc0 libjansson4 libnss-systemd
 libnvidia-cfg1-440 libnvidia-common-440 libnvidia-compute-440
 libnvidia-decode-440 libnvidia-encode-440 libnvidia-extra-440
 libnvidia-fbc1-440 libnvidia-gl-440 libnvidia-ifr1-440 libpam-systemd
 libpolkit-agent-1-0 libpolkit-backend-1-0 libpolkit-gobject-1-0 libxfont2
 libxi-dev libxkbfile1 libxmu-dev libxmu-headers libxnvctrl0 libxxf86dga1
 networkd-dispatcher nvidia-compute-utils-440 nvidia-dkms-440
 nvidia-driver-440 nvidia-kernel-common-440 nvidia-kernel-source-440
 nvidia-modprobe nvidia-prime nvidia-settings nvidia-utils-440 openjdk-11-jre
 policykit-1 policykit-1-gnome python3-xkit screen-resolution-extra systemd
 systemd-sysv udev x11-utils x11-xkb-utils xfonts-base xfonts-encodings
 xfonts-utils xserver-common xserver-xorg-core-hwe-18.04
 xserver-xorg-video-nvidia-440

0 upgraded, 119 newly installed, 0 to remove and 34 not upgraded.

Need to get 121 MB/1,267 MB of archives.

After this operation, 3,074 MB of additional disk space will be used.

Get:1 file:/var/cuda-repo-9-2-local cuda-license-9-2 9.2.88-1 [22.0 kB]

Get:2 file:/var/cuda-repo-9-2-local cuda-misc-headers-9-2 9.2.88-1 [640 kB]

Get:3 <http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu> bionic/main amd64 libnvidia-common-440 all 440

Get:4 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 keyboard-configuration all 1.178ubuntu2.9

Get:5 <http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu> bionic/main amd64 libnvidia-compute-440 amd64

Get:6 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64 nvidia-modprobe 440.

Get:7 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64 libxnvctrl0 440.64.00-

Get:8 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64 nvidia-settings 440.64

Get:9 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64 cuda-drivers 440.64.00

Get:10 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libcap2 amd64 1:2.25-1.2 [13.0 kB]

Get:11 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libargon2-0 amd64 0~20161029-1.1 [19.9 kB]

Get:12 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libdevmapper1.02.1 amd64 2:1.02.145-4.

Get:13 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libcryptsetup12 amd64 2:2.0.2-1ubuntu1

Get:14 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libidn11 amd64 1.33-2.1ubuntu1.2 [46.6

Get:15 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libip4tc0 amd64 1.6.1-2ubuntu2 [19.6 kB]

Get:16 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 systemd amd64 237-3ubuntu10.41 [2,91

Get:17 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 systemd-sysv amd64 237-3ubuntu10.41 [

Get:18 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxxf86dga1 amd64 2:1.1.4-1 [13.7 kB]

Get:19 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 dmsetup amd64 2:1.02.145-4.1ubuntu3.1

Get:20 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libnss-systemd amd64 237-3ubuntu10.41

Get:21 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libpam-systemd amd64 237-3ubuntu10.4

Get:22 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 networkd-dispatcher all 1.7-0ubuntu3.3 [

Get:23 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 udev amd64 237-3ubuntu10.41 [1,101 k

Get:24 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libpolkit-gobject-1-0 amd64 0.105-20ubu

Get:25 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 openjdk-11-jre amd64 11.0.7+10-2ubuntu

Get:26 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 default-jre amd64 2:1.11-68ubuntu1~18.

Get:27 <http://archive.ubuntu.com/ubuntu> bionic/universe amd64 freeglut3 amd64 2.8.1-3 [73.6 kB]

Get:28 <http://archive.ubuntu.com/ubuntu> bionic/universe amd64 freeglut3-dev amd64 2.8.1-3 [124 kB]

Get:29 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxmu-headers all 2:1.1.2-2 [54.3 kB]

Get:30 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxmu-dev amd64 2:1.1.2-2 [49.0 kB]

Get:31 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxi-dev amd64 2:1.7.9-1 [186 kB]

Get:32 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 dkms all 2.3-3ubuntu9.7 [68.1 kB]

Get:33 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxkbfile1 amd64 1:1.0.9-2 [64.6 kB]

Get:34 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 x11-xkb-utils amd64 7.7+3ubuntu0.18.04

Get:35 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 xserver-common all 2:1.19.6-1ubuntu4.4

Get:36 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libfontenc1 amd64 1:1.1.3-1 [13.9 kB]

Get:37 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libxfont2 amd64 1:2.0.3-1 [91.7 kB]

Get:38 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 xserver-xorg-core-hwe-18.04 amd64 2:1.1

Get:39 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 python3-xkit all 0.5.0ubuntu2 [18.6 kB]

Get:40 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libpolkit-agent-1-0 amd64 0.105-20ubun

Get:41 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 libpolkit-backend-1-0 amd64 0.105-20ub

Get:42 <http://archive.ubuntu.com/ubuntu> bionic-updates/main amd64 policykit-1 amd64 0.105-20ubuntu0.18.0

Get:43 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 policykit-1-gnome amd64 0.105-6ubuntu2 [24.0 k

Get:44 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 screen-resolution-extra all 0.17.3 [11.7 kB]

Get:45 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libgtk2.0-common all 2.24.32-1ubuntu1 [125 kB]

Get:46 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libgtk2.0-0 amd64 2.24.32-1ubuntu1 [1,769 kB]

Get:47 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libjansson4 amd64 2.11-1 [29.3 kB]

Get:48 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libfakeroot amd64 1.22-2ubuntu1 [25.9 kB]

Get:49 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 fakeroot amd64 1.22-2ubuntu1 [62.3 kB]

Get:50 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 fonts-dejavu-core all 2.37-1 [1,041 kB]

Get:51 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 fonts-dejavu-extra all 2.37-1 [1,953 kB]

Get:52 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 x11-utils amd64 7.7+3build1 [196 kB]

Get:53 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libatk-wrapper-java all 0.33.3-20ubuntu0.1 [34.7 k

Get:54 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libatk-wrapper-java-jni amd64 0.33.3-20ubuntu0.1

Get:55 <http://archive.ubuntu.com/ubuntu> bionic/main amd64 libgail18 amd64 2.24.32-1ubuntu1 [14.2 kB]

```
Get:53 http://archive.ubuntu.com/ubuntu bionic/main amd64 libgail-common amd64 2.24.32-1ubuntu1 [112 kB]
Get:56 http://archive.ubuntu.com/ubuntu bionic/main amd64 libgail-common amd64 2.24.32-1ubuntu1 [112 kB]
Get:57 http://archive.ubuntu.com/ubuntu bionic/main amd64 libgtk2.0-bin amd64 2.24.32-1ubuntu1 [7,536 B]
Get:58 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 nvidia-prime all 0.8.8.2 [8,412 B]
Get:59 http://archive.ubuntu.com/ubuntu bionic/main amd64 xfonts-encodings all 1:1.0.4-2 [573 kB]
Get:60 http://archive.ubuntu.com/ubuntu bionic/main amd64 xfonts-utils amd64 1:7.7+6 [91.5 kB]
Get:61 http://archive.ubuntu.com/ubuntu bionic/main amd64 xfonts-base all 1:1.0.4+nmu1 [5,914 kB]
Get:62 file:/var/cuda-repo-9-2-local cuda-nvcc-9-2 9.2.88-1 [15.4 MB]
Get:63 file:/var/cuda-repo-9-2-local cuda-cuobjdump-9-2 9.2.88-1 [129 kB]
Get:64 file:/var/cuda-repo-9-2-local cuda-nvprune-9-2 9.2.88-1 [36.7 kB]
Get:65 file:/var/cuda-repo-9-2-local cuda-compiler-9-2 9.2.88-1 [2,518 B]
Get:66 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-decode-440 amd64
Get:67 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-encode-440 amd64
Get:68 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-fbc1-440 amd64 440.
Get:69 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-gl-440 amd64 440.8
Get:70 file:/var/cuda-repo-9-2-local cuda-nvdisasm-9-2 9.2.88-1 [17.4 MB]
Get:71 file:/var/cuda-repo-9-2-local cuda-gdb-9-2 9.2.88-1 [2,765 kB]
Get:72 file:/var/cuda-repo-9-2-local cuda-nvprof-9-2 9.2.88-1 [4,737 kB]
Get:73 file:/var/cuda-repo-9-2-local cuda-memcheck-9-2 9.2.88-1 [137 kB]
Get:74 file:/var/cuda-repo-9-2-local cuda-cudart-9-2 9.2.88-1 [97.8 kB]
Get:75 file:/var/cuda-repo-9-2-local cuda-driver-dev-9-2 9.2.88-1 [11.1 kB]
Get:76 file:/var/cuda-repo-9-2-local cuda-cudart-dev-9-2 9.2.88-1 [718 kB]
Get:77 file:/var/cuda-repo-9-2-local cuda-cupti-9-2 9.2.88-1 [1,537 kB]
Get:78 file:/var/cuda-repo-9-2-local cuda-gpu-library-advisor-9-2 9.2.88-1 [1,002 kB]
Get:79 file:/var/cuda-repo-9-2-local cuda-nvtx-9-2 9.2.88-1 [24.3 kB]
Get:80 file:/var/cuda-repo-9-2-local cuda-command-line-tools-9-2 9.2.88-1 [26.3 kB]
Get:81 file:/var/cuda-repo-9-2-local cuda-nsight-9-2 9.2.88-1 [2,580 B]
Get:82 file:/var/cuda-repo-9-2-local cuda-nvvp-9-2 9.2.88-1 [2,528 B]
Get:83 file:/var/cuda-repo-9-2-local cuda-nvrtc-9-2 9.2.88-1 [5,908 kB]
Get:84 file:/var/cuda-repo-9-2-local cuda-nvrtc-dev-9-2 9.2.88-1 [9,318 B]
Get:85 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-ifrt-440 amd64 440
Get:86 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-compute-utils-440 am
Get:87 file:/var/cuda-repo-9-2-local cuda-cusolver-9-2 9.2.88-1 [31.1 MB]
Get:88 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-kernel-source-440 am
Get:89 file:/var/cuda-repo-9-2-local cuda-cusolver-dev-9-2 9.2.88-1 [8,184 kB]
Get:90 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-kernel-common-440 a
Get:91 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-dkms-440 amd64 440
Get:92 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-extra-440 amd64 440
Get:93 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-utils-440 amd64 440.8
Get:94 file:/var/cuda-repo-9-2-local cuda-cublas-9-2 9.2.88-1 [24.9 MB]
Get:95 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 libnvidia-cfg1-440 amd64 440
Get:96 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 xserver-xorg-video-nvidia-440
Get:97 http://ppa.launchpad.net/graphics-drivers/ppa/ubuntu bionic/main amd64 nvidia-driver-440 amd64 440
Get:98 file:/var/cuda-repo-9-2-local cuda-cublas-dev-9-2 9.2.88-1 [49.1 MB]
Get:99 file:/var/cuda-repo-9-2-local cuda-cufft-9-2 9.2.88-1 [51.5 MB]
Get:100 file:/var/cuda-repo-9-2-local cuda-cufft-dev-9-2 9.2.88-1 [106 MB]
Get:101 file:/var/cuda-repo-9-2-local cuda-curand-9-2 9.2.88-1 [38.8 MB]
Get:102 file:/var/cuda-repo-9-2-local cuda-curand-dev-9-2 9.2.88-1 [57.8 MB]
Get:103 file:/var/cuda-repo-9-2-local cuda-cusparse-9-2 9.2.88-1 [27.6 MB]
Get:104 file:/var/cuda-repo-9-2-local cuda-cusparse-dev-9-2 9.2.88-1 [27.8 MB]
Get:105 file:/var/cuda-repo-9-2-local cuda-npp-9-2 9.2.88-1 [52.1 MB]
Get:106 file:/var/cuda-repo-9-2-local cuda-npp-dev-9-2 9.2.88-1 [52.0 MB]
Get:107 file:/var/cuda-repo-9-2-local cuda-nvml-dev-9-2 9.2.88-1 [49.4 kB]
Get:108 file:/var/cuda-repo-9-2-local cuda-nvgraph-9-2 9.2.88-1 [11.7 MB]
Get:109 file:/var/cuda-repo-9-2-local cuda-nvgraph-dev-9-2 9.2.88-1 [30.0 MB]
Get:110 file:/var/cuda-repo-9-2-local cuda-visual-tools-9-2 9.2.88-1 [396 MB]
Get:111 file:/var/cuda-repo-9-2-local cuda-tools-9-2 9.2.88-1 [2,486 B]
Get:112 file:/var/cuda-repo-9-2-local cuda-samples-9-2 9.2.88-1 [76.3 MB]
```


Get:113 file:/var/cuda-repo-9-2-local cuda-documentation-9-2 9.2.88-1 [50.4 MB]
Get:114 file:/var/cuda-repo-9-2-local cuda-libraries-dev-9-2 9.2.88-1 [2,598 B]
Get:115 file:/var/cuda-repo-9-2-local cuda-toolkit-9-2 9.2.88-1 [2,828 B]
Get:116 file:/var/cuda-repo-9-2-local cuda-libraries-9-2 9.2.88-1 [2,568 B]
Get:117 file:/var/cuda-repo-9-2-local cuda-runtime-9-2 9.2.88-1 [2,530 B]
Get:118 file:/var/cuda-repo-9-2-local cuda-demo-suite-9-2 9.2.88-1 [3,889 kB]
Get:119 file:/var/cuda-repo-9-2-local cuda-9-2 9.2.88-1 [2,560 B]
Fetched 121 MB in 20s (6,154 kB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
Selecting previously unselected package keyboard-configuration.
(Reading database ... 119146 files and directories currently installed.)
Preparing to unpack .../0-keyboard-configuration_1.178ubuntu2.9_all.deb ...
Unpacking keyboard-configuration (1.178ubuntu2.9) ...
Selecting previously unselected package libcap2:amd64.
Preparing to unpack .../1-libcap2_1%3a2.25-1.2_amd64.deb ...
Unpacking libcap2:amd64 (1:2.25-1.2) ...
Selecting previously unselected package libargon2-0:amd64.
Preparing to unpack .../2-libargon2-0_0~20161029-1.1_amd64.deb ...
Unpacking libargon2-0:amd64 (0~20161029-1.1) ...
Selecting previously unselected package libdevmapper1.02.1:amd64.
Preparing to unpack .../3-libdevmapper1.02.1_2%3a1.02.145-4.1ubuntu3.18.04.3_amd64.deb ...
Unpacking libdevmapper1.02.1:amd64 (2:1.02.145-4.1ubuntu3.18.04.3) ...
Selecting previously unselected package libcryptsetup12:amd64.
Preparing to unpack .../4-libcryptsetup12_2%3a2.0.2-1ubuntu1.1_amd64.deb ...
Unpacking libcryptsetup12:amd64 (2:2.0.2-1ubuntu1.1) ...
Selecting previously unselected package libidn11:amd64.
Preparing to unpack .../5-libidn11_1.33-2.1ubuntu1.2_amd64.deb ...
Unpacking libidn11:amd64 (1.33-2.1ubuntu1.2) ...
Selecting previously unselected package libip4tc0:amd64.
Preparing to unpack .../6-libip4tc0_1.6.1-2ubuntu2_amd64.deb ...
Unpacking libip4tc0:amd64 (1.6.1-2ubuntu2) ...
Setting up libcap2:amd64 (1:2.25-1.2) ...
Setting up libargon2-0:amd64 (0~20161029-1.1) ...
Setting up libdevmapper1.02.1:amd64 (2:1.02.145-4.1ubuntu3.18.04.3) ...
Setting up libcryptsetup12:amd64 (2:2.0.2-1ubuntu1.1) ...
Setting up libidn11:amd64 (1.33-2.1ubuntu1.2) ...
Setting up libip4tc0:amd64 (1.6.1-2ubuntu2) ...
Selecting previously unselected package systemd.
(Reading database ... 119198 files and directories currently installed.)
Preparing to unpack .../systemd_237-3ubuntu10.41_amd64.deb ...
Unpacking systemd (237-3ubuntu10.41) ...
Setting up systemd (237-3ubuntu10.41) ...
Selecting previously unselected package systemd-sysv.
(Reading database ... 119880 files and directories currently installed.)
Preparing to unpack .../000-systemd-sysv_237-3ubuntu10.41_amd64.deb ...
Unpacking systemd-sysv (237-3ubuntu10.41) ...
Selecting previously unselected package libxxf86dga1:amd64.
Preparing to unpack .../001-libxxf86dga1_2%3a1.1.4-1_amd64.deb ...
Unpacking libxxf86dga1:amd64 (2:1.1.4-1) ...
Selecting previously unselected package dmsetup.
Preparing to unpack .../002-dmsetup_2%3a1.02.145-4.1ubuntu3.18.04.3_amd64.deb ...
Unpacking dmsetup (2:1.02.145-4.1ubuntu3.18.04.3) ...
Selecting previously unselected package libnss-systemd:amd64.
Preparing to unpack .../003-libnss-systemd_237-3ubuntu10.41_amd64.deb ...
Unpacking libnss-systemd:amd64 (237-3ubuntu10.41) ...
Selecting previously unselected package libpam-systemd:amd64.
Preparing to unpack .../004-libpam-systemd_237-3ubuntu10.41_amd64.deb ...

Unpacking libpam-systemd:amd64 (237-3ubuntu10.41) ...
Selecting previously unselected package networkd-dispatcher.
Preparing to unpack .../005-networkd-dispatcher_1.7-0ubuntu3.3_all.deb ...
Unpacking networkd-dispatcher (1.7-0ubuntu3.3) ...
Selecting previously unselected package udev.
Preparing to unpack .../006-udev_237-3ubuntu10.41_amd64.deb ...
Unpacking udev (237-3ubuntu10.41) ...
Selecting previously unselected package libpolkit-gobject-1-0:amd64.
Preparing to unpack .../007-libpolkit-gobject-1-0_0.105-20ubuntu0.18.04.5_amd64.deb ...
Unpacking libpolkit-gobject-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...
Selecting previously unselected package cuda-license-9-2.
Preparing to unpack .../008-cuda-license-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-license-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-misc-headers-9-2.
Preparing to unpack .../009-cuda-misc-headers-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-misc-headers-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvcc-9-2.
Preparing to unpack .../010-cuda-nvcc-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvcc-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cuobjdump-9-2.
Preparing to unpack .../011-cuda-cuobjdump-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cuobjdump-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvprune-9-2.
Preparing to unpack .../012-cuda-nvprune-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvprune-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-compiler-9-2.
Preparing to unpack .../013-cuda-compiler-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-compiler-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvdisasm-9-2.
Preparing to unpack .../014-cuda-nvdisasm-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvdisasm-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-gdb-9-2.
Preparing to unpack .../015-cuda-gdb-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-gdb-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvprof-9-2.
Preparing to unpack .../016-cuda-nvprof-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvprof-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-memcheck-9-2.
Preparing to unpack .../017-cuda-memcheck-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-memcheck-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cudart-9-2.
Preparing to unpack .../018-cuda-cudart-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cudart-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-driver-dev-9-2.
Preparing to unpack .../019-cuda-driver-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-driver-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cudart-dev-9-2.
Preparing to unpack .../020-cuda-cudart-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cudart-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cupti-9-2.
Preparing to unpack .../021-cuda-cupti-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cupti-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-gpu-library-advisor-9-2.
Preparing to unpack .../022-cuda-gpu-library-advisor-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-gpu-library-advisor-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvtx-9-2.
Preparing to unpack .../023-cuda-nvtx-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvtx-9-2 (9.2.88-1) ...

Unpacking cuda-nvtx-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-command-line-tools-9-2.
Preparing to unpack .../024-cuda-command-line-tools-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-command-line-tools-9-2 (9.2.88-1) ...
Selecting previously unselected package openjdk-11-jre:amd64.
Preparing to unpack .../025-openjdk-11-jre_11.0.7+10-2ubuntu2~18.04_amd64.deb ...
Unpacking openjdk-11-jre:amd64 (11.0.7+10-2ubuntu2~18.04) ...
Selecting previously unselected package default-jre.
Preparing to unpack .../026-default-jre_2%3a1.11-68ubuntu1~18.04.1_amd64.deb ...
Unpacking default-jre (2:1.11-68ubuntu1~18.04.1) ...
Selecting previously unselected package cuda-nsight-9-2.
Preparing to unpack .../027-cuda-nsight-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nsight-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvvp-9-2.
Preparing to unpack .../028-cuda-nvvp-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvvp-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvrtc-9-2.
Preparing to unpack .../029-cuda-nvrtc-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvrtc-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvrtc-dev-9-2.
Preparing to unpack .../030-cuda-nvrtc-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvrtc-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cusolver-9-2.
Preparing to unpack .../031-cuda-cusolver-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cusolver-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cusolver-dev-9-2.
Preparing to unpack .../032-cuda-cusolver-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cusolver-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cublas-9-2.
Preparing to unpack .../033-cuda-cublas-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cublas-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cublas-dev-9-2.
Preparing to unpack .../034-cuda-cublas-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cublas-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cufft-9-2.
Preparing to unpack .../035-cuda-cufft-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cufft-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cufft-dev-9-2.
Preparing to unpack .../036-cuda-cufft-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cufft-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-curand-9-2.
Preparing to unpack .../037-cuda-curand-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-curand-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-curand-dev-9-2.
Preparing to unpack .../038-cuda-curand-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-curand-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cusparse-9-2.
Preparing to unpack .../039-cuda-cusparse-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cusparse-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-cusparse-dev-9-2.
Preparing to unpack .../040-cuda-cusparse-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-cusparse-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-npp-9-2.
Preparing to unpack .../041-cuda-npp-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-npp-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-npp-dev-9-2.
Preparing to unpack .../042-cuda-npp-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-npp-dev-9-2 (9.2.88-1) ...

Selecting previously unselected package cuda-nvml-dev-9-2.
Preparing to unpack .../043-cuda-nvml-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvml-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvgraph-9-2.
Preparing to unpack .../044-cuda-nvgraph-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvgraph-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-nvgraph-dev-9-2.
Preparing to unpack .../045-cuda-nvgraph-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-nvgraph-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-visual-tools-9-2.
Preparing to unpack .../046-cuda-visual-tools-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-visual-tools-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-tools-9-2.
Preparing to unpack .../047-cuda-tools-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-tools-9-2 (9.2.88-1) ...
Selecting previously unselected package freeglut3:amd64.
Preparing to unpack .../048-freeglut3_2.8.1-3_amd64.deb ...
Unpacking freeglut3:amd64 (2.8.1-3) ...
Selecting previously unselected package freeglut3-dev:amd64.
Preparing to unpack .../049-freeglut3-dev_2.8.1-3_amd64.deb ...
Unpacking freeglut3-dev:amd64 (2.8.1-3) ...
Selecting previously unselected package libxmu-headers.
Preparing to unpack .../050-libxmu-headers_2%3a1.1.2-2_all.deb ...
Unpacking libxmu-headers (2:1.1.2-2) ...
Selecting previously unselected package libxmu-dev:amd64.
Preparing to unpack .../051-libxmu-dev_2%3a1.1.2-2_amd64.deb ...
Unpacking libxmu-dev:amd64 (2:1.1.2-2) ...
Selecting previously unselected package libxi-dev:amd64.
Preparing to unpack .../052-libxi-dev_2%3a1.7.9-1_amd64.deb ...
Unpacking libxi-dev:amd64 (2:1.7.9-1) ...
Selecting previously unselected package cuda-samples-9-2.
Preparing to unpack .../053-cuda-samples-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-samples-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-documentation-9-2.
Preparing to unpack .../054-cuda-documentation-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-documentation-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-libraries-dev-9-2.
Preparing to unpack .../055-cuda-libraries-dev-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-libraries-dev-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-toolkit-9-2.
Preparing to unpack .../056-cuda-toolkit-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-toolkit-9-2 (9.2.88-1) ...
Selecting previously unselected package libnvidia-common-440.
Preparing to unpack .../057-libnvidia-common-440_440.82-0ubuntu0~0.18.04.1_all.deb ...
Unpacking libnvidia-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-compute-440:amd64.
Preparing to unpack .../058-libnvidia-compute-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-compute-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-decode-440:amd64.
Preparing to unpack .../059-libnvidia-decode-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-decode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-encode-440:amd64.
Preparing to unpack .../060-libnvidia-encode-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-encode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-fbc1-440:amd64.
Preparing to unpack .../061-libnvidia-fbc1-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-fbc1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-gl-440:amd64.

```
Preparing to unpack .../062-libnvidia-gl-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-gl-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-ifr1-440:amd64.
Preparing to unpack .../063-libnvidia-ifr1-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-ifr1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-compute-utils-440.
Preparing to unpack .../064-nvidia-compute-utils-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-compute-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package dkms.
Preparing to unpack .../065-dkms_2.3-3ubuntu9.7_all.deb ...
Unpacking dkms (2.3-3ubuntu9.7) ...
Selecting previously unselected package nvidia-kernel-source-440.
Preparing to unpack .../066-nvidia-kernel-source-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-kernel-source-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-kernel-common-440.
Preparing to unpack .../067-nvidia-kernel-common-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-kernel-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-dkms-440.
Preparing to unpack .../068-nvidia-dkms-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-dkms-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-extra-440:amd64.
Preparing to unpack .../069-libnvidia-extra-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-extra-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-utils-440.
Preparing to unpack .../070-nvidia-utils-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libnvidia-cfg1-440:amd64.
Preparing to unpack .../071-libnvidia-cfg1-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking libnvidia-cfg1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package libxkbfile1:amd64.
Preparing to unpack .../072-libxkbfile1_1%3a1.0.9-2_amd64.deb ...
Unpacking libxkbfile1:amd64 (1:1.0.9-2) ...
Selecting previously unselected package x11-xkb-utils.
Preparing to unpack .../073-x11-xkb-utils_7.7+3ubuntu0.18.04.1_amd64.deb ...
Unpacking x11-xkb-utils (7.7+3ubuntu0.18.04.1) ...
Selecting previously unselected package xserver-common.
Preparing to unpack .../074-xserver-common_2%3a1.19.6-1ubuntu4.4_all.deb ...
Unpacking xserver-common (2:1.19.6-1ubuntu4.4) ...
Selecting previously unselected package libfontenc1:amd64.
Preparing to unpack .../075-libfontenc1_1%3a1.1.3-1_amd64.deb ...
Unpacking libfontenc1:amd64 (1:1.1.3-1) ...
Selecting previously unselected package libxfont2:amd64.
Preparing to unpack .../076-libxfont2_1%3a2.0.3-1_amd64.deb ...
Unpacking libxfont2:amd64 (1:2.0.3-1) ...
Selecting previously unselected package xserver-xorg-core-hwe-18.04.
Preparing to unpack .../077-xserver-xorg-core-hwe-18.04_2%3a1.20.5+git20191008-0ubuntu1~18.04.1_amd64.d
Unpacking xserver-xorg-core-hwe-18.04 (2:1.20.5+git20191008-0ubuntu1~18.04.1) ...
Selecting previously unselected package xserver-xorg-video-nvidia-440.
Preparing to unpack .../078-xserver-xorg-video-nvidia-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking xserver-xorg-video-nvidia-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-driver-440.
Preparing to unpack .../079-nvidia-driver-440_440.82-0ubuntu0~0.18.04.1_amd64.deb ...
Unpacking nvidia-driver-440 (440.82-0ubuntu0~0.18.04.1) ...
Selecting previously unselected package nvidia-modprobe.
Preparing to unpack .../080-nvidia-modprobe_440.64.00-0ubuntu1_amd64.deb ...
Unpacking nvidia-modprobe (440.64.00-0ubuntu1) ...
Selecting previously unselected package python3-xkit.
Preparing to unpack .../081-python3-xkit_0.5.0ubuntu2_all.deb ...
Unpacking python3-xkit (0.5.0ubuntu2) ...
```

```
Preparing to unpack .../081-python3-xkit_0.5.0ubuntu2_all.deb ...
Unpacking python3-xkit (0.5.0ubuntu2) ...
Selecting previously unselected package libpolkit-agent-1-0:amd64.
Preparing to unpack .../082-libpolkit-agent-1-0_0.105-20ubuntu0.18.04.5_amd64.deb ...
Unpacking libpolkit-agent-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...
Selecting previously unselected package libpolkit-backend-1-0:amd64.
Preparing to unpack .../083-libpolkit-backend-1-0_0.105-20ubuntu0.18.04.5_amd64.deb ...
Unpacking libpolkit-backend-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...
Selecting previously unselected package policykit-1.
Preparing to unpack .../084-policykit-1_0.105-20ubuntu0.18.04.5_amd64.deb ...
Unpacking policykit-1 (0.105-20ubuntu0.18.04.5) ...
Selecting previously unselected package policykit-1-gnome.
Preparing to unpack .../085-policykit-1-gnome_0.105-6ubuntu2_amd64.deb ...
Unpacking policykit-1-gnome (0.105-6ubuntu2) ...
Selecting previously unselected package screen-resolution-extra.
Preparing to unpack .../086-screen-resolution-extra_0.17.3_all.deb ...
Unpacking screen-resolution-extra (0.17.3) ...
Selecting previously unselected package libgtk2.0-common.
Preparing to unpack .../087-libgtk2.0-common_2.24.32-1ubuntu1_all.deb ...
Unpacking libgtk2.0-common (2.24.32-1ubuntu1) ...
Selecting previously unselected package libgtk2.0-0:amd64.
Preparing to unpack .../088-libgtk2.0-0_2.24.32-1ubuntu1_amd64.deb ...
Unpacking libgtk2.0-0:amd64 (2.24.32-1ubuntu1) ...
Selecting previously unselected package libjansson4:amd64.
Preparing to unpack .../089-libjansson4_2.11-1_amd64.deb ...
Unpacking libjansson4:amd64 (2.11-1) ...
Selecting previously unselected package libxnvctrl0:amd64.
Preparing to unpack .../090-libxnvctrl0_440.64.00-0ubuntu1_amd64.deb ...
Unpacking libxnvctrl0:amd64 (440.64.00-0ubuntu1) ...
Selecting previously unselected package nvidia-settings.
Preparing to unpack .../091-nvidia-settings_440.64.00-0ubuntu1_amd64.deb ...
Unpacking nvidia-settings (440.64.00-0ubuntu1) ...
Selecting previously unselected package cuda-drivers.
Preparing to unpack .../092-cuda-drivers_440.64.00-1_amd64.deb ...
Unpacking cuda-drivers (440.64.00-1) ...
Selecting previously unselected package cuda-libraries-9-2.
Preparing to unpack .../093-cuda-libraries-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-libraries-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-runtime-9-2.
Preparing to unpack .../094-cuda-runtime-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-runtime-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-demo-suite-9-2.
Preparing to unpack .../095-cuda-demo-suite-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-demo-suite-9-2 (9.2.88-1) ...
Selecting previously unselected package cuda-9-2.
Preparing to unpack .../096-cuda-9-2_9.2.88-1_amd64.deb ...
Unpacking cuda-9-2 (9.2.88-1) ...
Selecting previously unselected package libfakeroot:amd64.
Preparing to unpack .../097-libfakeroot_1.22-2ubuntu1_amd64.deb ...
Unpacking libfakeroot:amd64 (1.22-2ubuntu1) ...
Selecting previously unselected package fakeroot.
Preparing to unpack .../098-fakeroot_1.22-2ubuntu1_amd64.deb ...
Unpacking fakeroot (1.22-2ubuntu1) ...
Selecting previously unselected package fonts-dejavu-core.
Preparing to unpack .../099-fonts-dejavu-core_2.37-1_all.deb ...
Unpacking fonts-dejavu-core (2.37-1) ...
Selecting previously unselected package fonts-dejavu-extra.
Preparing to unpack .../100-fonts-dejavu-extra_2.37-1_all.deb ...
```

Unpacking fonts-dejavu-extra (2.37-1) ...
Selecting previously unselected package x11-utils.
Preparing to unpack .../101-x11-utils_7.7+3build1_amd64.deb ...
Unpacking x11-utils (7.7+3build1) ...
Selecting previously unselected package libatk-wrapper-java.
Preparing to unpack .../102-libatk-wrapper-java_0.33.3-20ubuntu0.1_all.deb ...
Unpacking libatk-wrapper-java (0.33.3-20ubuntu0.1) ...
Selecting previously unselected package libatk-wrapper-java-jni:amd64.
Preparing to unpack .../103-libatk-wrapper-java-jni_0.33.3-20ubuntu0.1_amd64.deb ...
Unpacking libatk-wrapper-java-jni:amd64 (0.33.3-20ubuntu0.1) ...
Selecting previously unselected package libgail18:amd64.
Preparing to unpack .../104-libgail18_2.24.32-1ubuntu1_amd64.deb ...
Unpacking libgail18:amd64 (2.24.32-1ubuntu1) ...
Selecting previously unselected package libgail-common:amd64.
Preparing to unpack .../105-libgail-common_2.24.32-1ubuntu1_amd64.deb ...
Unpacking libgail-common:amd64 (2.24.32-1ubuntu1) ...
Selecting previously unselected package libgtk2.0-bin.
Preparing to unpack .../106-libgtk2.0-bin_2.24.32-1ubuntu1_amd64.deb ...
Unpacking libgtk2.0-bin (2.24.32-1ubuntu1) ...
Selecting previously unselected package nvidia-prime.
Preparing to unpack .../107-nvidia-prime_0.8.8.2_all.deb ...
Unpacking nvidia-prime (0.8.8.2) ...
Selecting previously unselected package xfonts-encodings.
Preparing to unpack .../108-xfonts-encodings_1%3a1.0.4-2_all.deb ...
Unpacking xfonts-encodings (1:1.0.4-2) ...
Selecting previously unselected package xfonts-utils.
Preparing to unpack .../109-xfonts-utils_1%3a7.7+6_amd64.deb ...
Unpacking xfonts-utils (1:7.7+6) ...
Selecting previously unselected package xfonts-base.
Preparing to unpack .../110-xfonts-base_1%3a1.0.4+nmu1_all.deb ...
Unpacking xfonts-base (1:1.0.4+nmu1) ...
Setting up libxkbfile1:amd64 (1:1.0.9-2) ...
Setting up libnss-systemd:amd64 (237-3ubuntu10.41) ...
First installation detected...
Checking NSS setup...
Setting up freeglut3:amd64 (2.8.1-3) ...
Setting up keyboard-configuration (1.178ubuntu2.9) ...
Your console font configuration will be updated the next time your system boots. If you want to update it now, run 'setupcon' from a virtual console.
Setting up libgtk2.0-common (2.24.32-1ubuntu1) ...
Setting up libnvidia-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Setting up nvidia-prime (0.8.8.2) ...
Setting up x11-xkb-utils (7.7+3ubuntu0.18.04.1) ...
Setting up libnvidia-fbc1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up fonts-dejavu-core (2.37-1) ...
Setting up systemd-sysv (237-3ubuntu10.41) ...
Setting up libxmu-headers (2:1.1.2-2) ...
Setting up libjansson4:amd64 (2.11-1) ...
Setting up libnvidia-compute-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up cuda-license-9-2 (9.2.88-1) ...
*** LICENSE AGREEMENT ***
By using this software you agree to fully comply with the terms and conditions of the EULA (End User License Agreement). The EULA is located at /usr/local/cuda-9.2/doc/EULA.txt. The EULA can also be found at <http://docs.nvidia.com/cuda/eula/index.html>. If you do not agree to the terms and conditions of the EULA, do not use the software.

Setting up xfonts-encodings (1:1.0.4-2) ...

```

Setting up cuda-nvprune-9-2 (9.2.88-1) ...
Setting up nvidia-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
Setting up nvidia-kernel-common-440 (440.82-0ubuntu0~0.18.04.1) ...
Setting up libnvidia-cfg1-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up dkms (2.3-3ubuntu9.7) ...
Setting up libxxf86dga1:amd64 (2:1.1.4-1) ...
Setting up udev (237-3ubuntu10.41) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of restart.
Setting up cuda-cudart-9-2 (9.2.88-1) ...
Setting up libfakeroot:amd64 (1.22-2ubuntu1) ...
Setting up nvidia-modprobe (440.64.00-0ubuntu1) ...
Setting up cuda-nvprof-9-2 (9.2.88-1) ...
Setting up cuda-nvrtc-9-2 (9.2.88-1) ...
Setting up cuda-nvtx-9-2 (9.2.88-1) ...
Setting up libfontenc1:amd64 (1:1.1.3-1) ...
Setting up dmsetup (2:1.02.145-4.1ubuntu3.18.04.3) ...
Setting up libnvidia-decode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up libxi-dev:amd64 (2:1.7.9-1) ...
Setting up nvidia-compute-utils-440 (440.82-0ubuntu0~0.18.04.1) ...
Warning: The home dir /nonexistent you specified can't be accessed: No such file or directory
Adding system user `nvidia-persistenced' (UID 104) ...
Adding new group `nvidia-persistenced' (GID 108) ...
Adding new user `nvidia-persistenced' (UID 104) with group `nvidia-persistenced' ...
Not creating home directory `/nonexistent'.
Setting up libnvidia-extra-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up cuda-cusolver-9-2 (9.2.88-1) ...
Setting up fonts-dejavu-extra (2.37-1) ...
Setting up libnvidia-encode-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up cuda-nvml-dev-9-2 (9.2.88-1) ...
Setting up freeglut3-dev:amd64 (2.8.1-3) ...
Setting up nvidia-kernel-source-440 (440.82-0ubuntu0~0.18.04.1) ...
Setting up libxnvctrl0:amd64 (440.64.00-0ubuntu1) ...
Setting up cuda-cufft-9-2 (9.2.88-1) ...
Setting up networkd-dispatcher (1.7-0ubuntu3.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/networkd-dispatcher.service → /lib/systemd/syst
Setting up libpolkit-gobject-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...
Setting up libnvidia-gl-440:amd64 (440.82-0ubuntu0~0.18.04.1) ...
Setting up python3-xkit (0.5.0ubuntu2) ...
Setting up openjdk-11-jre:amd64 (11.0.7+10-2ubuntu2~18.04) ...
Setting up cuda-npp-9-2 (9.2.88-1) ...
Setting up cuda-misc-headers-9-2 (9.2.88-1) ...
Setting up cuda-memcheck-9-2 (9.2.88-1) ...
Setting up cuda-npp-dev-9-2 (9.2.88-1) ...
Setting up libgtk2.0-0:amd64 (2.24.32-1ubuntu1) ...
Setting up xserver-common (2:1.19.6-1ubuntu4.4) ...
Setting up cuda-nvdisasm-9-2 (9.2.88-1) ...
Setting up libpam-systemd:amd64 (237-3ubuntu10.41) ...
Setting up cuda-nvrtc-dev-9-2 (9.2.88-1) ...
Setting up libgail18:amd64 (2.24.32-1ubuntu1) ...
Setting up cuda-driver-dev-9-2 (9.2.88-1) ...
Setting up cuda-curand-9-2 (9.2.88-1) ...
Setting up cuda-cusolver-dev-9-2 (9.2.88-1) ...
Setting up libxmu-dev:amd64 (2:1.1.2-2) ...
Setting up libpolkit-agent-1-0:amd64 (0.105-20ubuntu0.18.04.5) ...
Setting up default-jre (2:1.11-68ubuntu1~18.04.1) ...
Setting up cuda-nsight-9-2 (9.2.88-1) ...

```

```
Setting up cuda-cublas-9-2 (9.2.88-1) ...
Setting up cuda-cuobjdump-9-2 (9.2.88-1) ...
Setting up x11-utils (7.7+3build1) ...
Setting up cuda-cusparse-9-2 (9.2.88-1) ...
Setting up libxfont2:amd64 (1:2.0.3-1) ...
Setting up cuda-nvgraph-9-2 (9.2.88-1) ...
Setting up xfonts-utils (1:7.7+6) ...
Setting up libgail-common:amd64 (2.24.32-1ubuntu1) ...
Setting up cuda-gpu-library-advisor-9-2 (9.2.88-1) ...
Setting up fakeroot (1.22-2ubuntu1) ...
update-alternatives: using /usr/bin/fakeroot-sysv to provide /usr/bin/fakeroot (fakeroot) in auto mode
Setting up nvidia-dkms-440 (440.82-0ubuntu0~0.18.04.1) ...
Loading new nvidia-440.82 DKMS files...
It is likely that 4.19.104+ belongs to a chroot's host
Building for 4.15.0-101-generic
Building for architecture x86_64
Building initial module for 4.15.0-101-generic
Done.
```

nvidia:

Running module version sanity check.

- Original module
- No original module exists within this kernel
- Installation
- Installing to /lib/modules/4.15.0-101-generic/updates/dkms/

nvidia-modeset.ko:

Running module version sanity check.

- Original module
- No original module exists within this kernel
- Installation
- Installing to /lib/modules/4.15.0-101-generic/updates/dkms/

nvidia-drm.ko:

Running module version sanity check.

- Original module
- No original module exists within this kernel
- Installation
- Installing to /lib/modules/4.15.0-101-generic/updates/dkms/

nvidia-uvm.ko:

Running module version sanity check.

- Original module

```
!nvcc --version
```

```
↳ nvcc: NVIDIA (R) Cuda compiler driver
   Copyright (c) 2005-2018 NVIDIA Corporation
   Built on Wed_Apr_11_23:16:29_CDT_2018
   Cuda compilation tools, release 9.2, V9.2.88
   Setting up cuda-gdb-9-2 (9.2.88-1) ...
```

```
!pip install git+git://github.com/andreinechaev/nvcc4jupyter.git
```

```
↳
```

```
Collecting git+git://github.com/andreinechaev/nvcc4jupyter.git
Cloning git://github.com/andreinechaev/nvcc4jupyter.git to /tmp/pip-req-build-aygqam7e
Running command git clone -q git://github.com/andreinechaev/nvcc4jupyter.git /tmp/pip-req-build-aygqam7e
Building wheels for collected packages: NVCCPlugin
Building wheel for NVCCPlugin (setup.py) ... done
Created wheel for NVCCPlugin: filename=NVCCPlugin-0.0.2-cp36-none-any.whl size=4307 sha256=c71da33540f4
Stored in directory: /tmp/pip-ephem-wheel-cache-4ldyl0g1/wheels/10/c2/05/c3241da27bfff77d60d21a9174f6
```

```
%load_ext nvcc_plugin
```

```
↳ created output directory at /content/src
Out bin /content/result.out
Setting up cuda-visual-tools-9-2 (9.2.88-1) ...
```

```
%%cu
#include <stdio.h>
#include <stdlib.h>
__global__ void add(int *a, int *b, int *c) {
    *c = *a + *b;
}
int main() {
    int a, b, c;
    // host copies of variables a, b & c
    int *d_a, *d_b, *d_c;
    // device copies of variables a, b & c
    int size = sizeof(int);
    // Allocate space for device copies of a, b, c
    cudaMalloc((void **)&d_a, size);
    cudaMalloc((void **)&d_b, size);
    cudaMalloc((void **)&d_c, size);
    // Setup input values
    c = 0;
    a = 3;
    b = 5;
    // Copy inputs to device
    cudaMemcpy(d_a, &a, size, cudaMemcpyHostToDevice);
    cudaMemcpy(d_b, &b, size, cudaMemcpyHostToDevice);
    // Launch add() kernel on GPU
    add<<<1,1>>>(d_a, d_b, d_c);
    // Copy result back to host
    cudaError err = cudaMemcpy(&c, d_c, size, cudaMemcpyDeviceToHost);
    if(err!=cudaSuccess) {
        printf("CUDA error copying to Host: %s\n", cudaGetErrorString(err));
    }
    printf("result is %d\n",c);
    // Cleanup
    cudaFree(d_a);
    cudaFree(d_b);
    cudaFree(d_c);
    return 0;
}
```

```
↳
```


result is 8

```
%%cu
#include<stdio.h>
#include<stdlib.h>

__global__ void print_from_gpu(void) {
    printf("Hello World! from thread [%d,%d] \
        From device\n", threadIdx.x,blockIdx.x);
}

int main(void) {
    printf("Hello World from host!\n");
    print_from_gpu<<<1,1>>>();
    cudaDeviceSynchronize();
    return 0;
}
```

```
↳ Hello World from host!
   Hello World! from thread [0,0]    From device
```