

ubuntu安装nvidia驱动

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1、更新软件源

sudo apt update

```
File Edit View Search Terminal Help

ubuntu@ubuntu:~$ sudo apt update
[sudo] password for ubuntu:
Hit:1 http://mirrors.tuna.tsinghua.edu.cn/ubuntu bionic InRelease
Hit:2 http://mirrors.tuna.tsinghua.edu.cn/ubuntu bionic-updates InRelease
Hit:3 http://mirrors.tuna.tsinghua.edu.cn/ubuntu bionic-backports InRelease
Hit:4 http://mirrors.tuna.tsinghua.edu.cn/ubuntu bionic-security InRelease
Reading package lists... Done
Building dependency tree
Reading state information... Done
71 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ubuntu:~$
```

2、查看是否已经禁用nouveau驱动

1smod | grep nouveau

```
wbuntu@ubuntu:~$ lsmod | grep nouveau
nouveau 1712128 0

mxm_wmi 16384 1 nouveau
wmi 24576 2 mxm_wmi,nouveau
i2c_algo_bit 16384 1 nouveau
ttm 106496 1 nouveau
drm_kms_helper 172032 1 nouveau
drm 401408 3 drm_kms_helper,ttm,nouveau
video 45056 1 nouveau
ubuntu@ubuntu:~$
```

3、禁用nouveau开源驱动

输入以下命令:

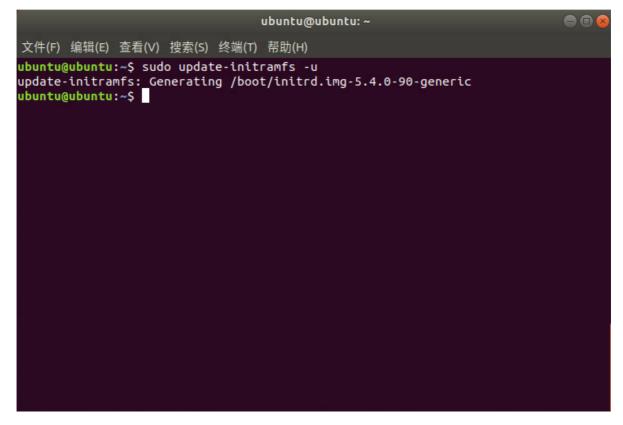
```
sudo vim /etc/modprobe.d/blacklist-nouveau.conf
```

添加以下内容:

```
blacklist nouveau
options nouveau modeset=0
```

4、重新生成内核initramfs:

sudo update-initramfs -u



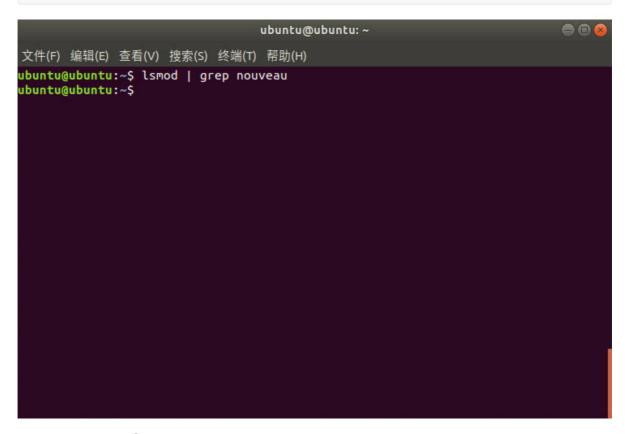
5、重启

reboot

6、重启后查看禁用nouveau是否生效

无输出便为生效,如有异常,请回顾2查看编辑内容是否有误。

1smod | grep nouveau



7、下载驱动

nvidia驱动官方下载链接,可根据显卡型号进行选择下载:

https://www.nvidia.cn/Download/index.aspx?lang=cn



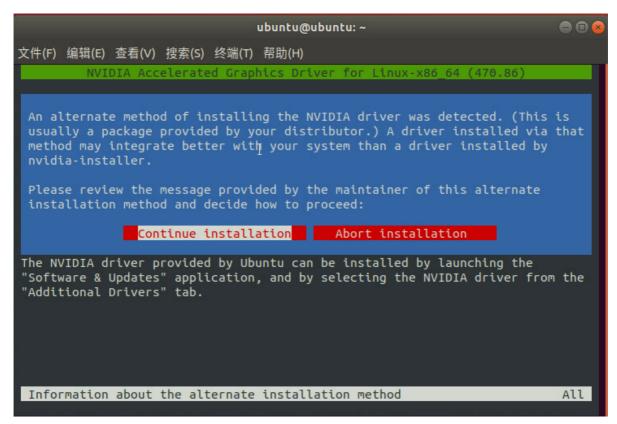
8、找到文件路径,给文件赋权

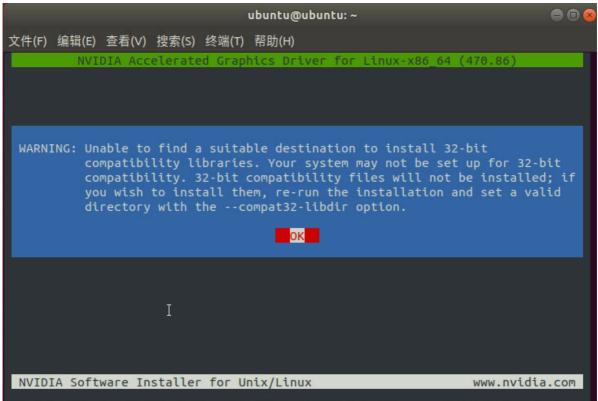
sudo chmod +x NVIDIA-Linux-x86_64-470.86.run(根据自身文件名进行)

```
ubuntu@ubuntu: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
ubuntu@ubuntu:~$ ls
cuda_11.1.0_455.23.05_linux.run
cudnn_samples_v8
Downloads
examples.desktop
NVIDIA_CUDA-11.1_Samples
NVIDIA-Linux-x86_64-470.86.run 赋权前
ubuntu@ubuntu:~$ sudo chmod +x NVIDIA-Linux-x86_64-470.86.run
[sudo] ubuntu 的密码:
ubuntu@ubuntu:~$ ls
cuda_11.1.0_455.23.05_linux.run
cudnn_samples_v8
Downloads
examples.desktop
  bcudnn8_8.0.5.39-1+cuda11.1_amd64.deb
bcudnn8-dev_8.0.5.39-1+cuda11.1_amd64.d
bcudnn8-samples_8.0.5.39-1+cuda11.1_amd
NVIDIA CUDA-11.1 Samples
NVIDIA-Linux-x86_64-470.86.run
ubuntu@ubuntu:~$
```

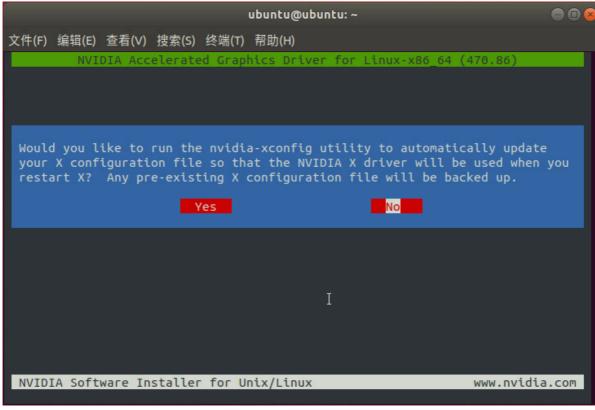
9、安装驱动

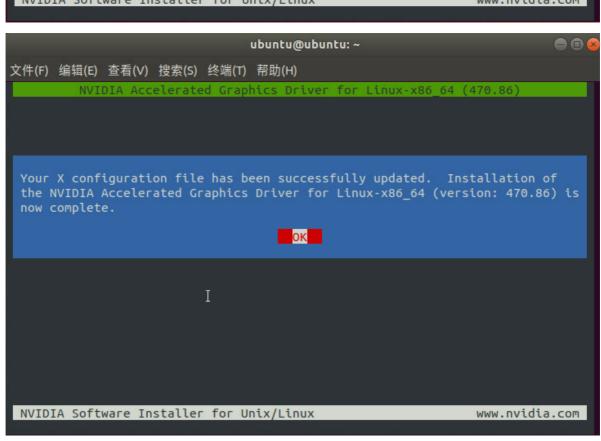
sudo ./NVIDIA-Linux-x86_64-470.86.run -no-x-check -no-opengl-files





这项如使用集显(核显)选no,如使用独显选yes。





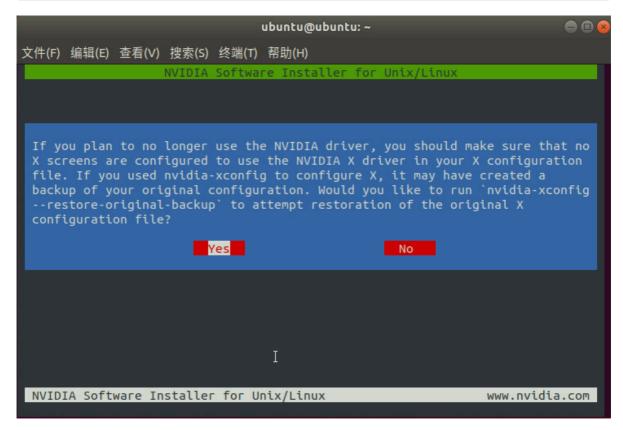
安装完毕。

10、查看驱动

nvidia-smi

```
ubuntu@ubuntu: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
ubuntu@ubuntu:~$ nvidia-smi
Tue Nov 30 11:26:43 2021
 NVIDIA-SMI 470.86 Driver Version: 470.86 CUDA Version: 11.4
 GPU Name Persistence-M| Bus-Id Disp.A | Volatile Uncorr. ECC |
Fan Temp Perf Pwr:Usage/Cap| Memory-Usage | GPU-Util Compute M. |
                                                         MIG M.
0 NVIDIA GeForce ... Off | 00000000:82:00.0 Off | N/A |
38% 33C P0 30W / 160W | 0MiB / 5934MiB | 0% Default |
N/A |
 Processes:
 GPU GI CI
ID ID
                                                       GPU Memory |
                  PID Type Process name
                                                       Usage
No running processes found
ubuntu@ubuntu:~$
```

11、卸载驱动



弹窗全选择yes直至结束,结束后查看是否还存在nvidia-smi命令,若无,则卸载成功。

温馨提示: 如需重装驱动, 只需执行10>8>9的步骤即可



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