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1.1 source.list

deb http://mirrors.163.com/ubuntu/ bionic-proposed main restricted universe multiverse

deb http://mirrors.163.com/ubuntu/ bionic-backports main restricted universe multiverse

deb-src http://mirrors.163.com/ubuntu/ bionic main restricted universe multiverse

 ${\it deb-src\ http://mirrors.163.com/ubuntu/\ bionic-security\ main\ restricted}$ universe multiverse

 ${\it deb-src\ http://mirrors.163.com/ubuntu/\ bionic-updates\ main\ restricted}$ universe multiverse

 ${\it deb-src\ http://mirrors.163.com/ubuntu/\ bionic-proposed\ main\ restricted}$ universe multiverse

 ${\it deb-src\ http://mirrors.163.com/ubuntu/\ bionic-backports\ main\ restricted}$ universe multiverse

deb http://archive.canonical.com/ bionic partner

1.2 nvidia 驱动

查看适合的驱动 ubuntu-drivers devices

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```
(py37) tryshallow@kernel:~/文档$ ubuntu-drivers devices
== /sys/devices/pci0000:00/0000:00:01.0/0000:01:00.0 ==
modalias : pci:v000010DEd00001382sv000010DEsd00001065bc03sc00i00
vendor : NVIDIA Corporation
model : GM107 [GeForce GTX 745]
driver : nvidia-driver-390 - third-party free
driver : nvidia-driver-410 - third-party free
driver : nvidia-driver-435 - third-party free recommended
driver : nvidia-driver-415 - third-party free
driver : nvidia-340 - distro non-free
driver : nvidia-driver-430 - third-party free
driver : xserver-xorg-video-nouveau - distro free builtin
```

图 1: ubuntu-drivers devices

添加软件仓库

sudo add-apt-repository ppa:graphics-drivers/ppa sudo update

禁用 nouveau

sudo vim /etc/modprobe.d/blacklist-nouveau.conf 在文件末尾插入:

blacklist nouveau

options nouveau modeset=0

重启, lsmod | grep nouveau 若无输出则禁用成功安装 nvidia sudo apt install nvidia-driver-435 nvidia-smi 可查看 nvidia 显卡的运行状态

NVID	IA-SMI	435.2		Driver	Version: 435.21	CUDA Versio	on: 10.1
GPU Fan	Name Temp			tence-M age/Cap	Bus-Id Disp./ Memory-Usage		
0		===== ce GTX		0ff	000000000:01:00.0 Off		N//
20% 	45C	P8	N/A	/ N/A	376MiB / 4043MiB	3 0%	Default
	esses:	P8	Type	Process		5 U% -+	GPU Memory Usage
Proc GPU	esses:	PID ======	Type =====	Process 	name b/xorg/Xorg	5 U%	GPU Memory Usage
Proc GPU	esses:	PID	Type G G	Process /usr/li	s name	5 U%	GPU Memor Usage

图 2: nvidia-smi

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1.3 flashplayer 安装

```
sudo add-apt-repository "deb http://archive.canonical.com/$(lsb_release -sc) partner"
sudo apt update
sudo apt install adobe-flashplugin browser-plugin-freshplayer-pepperflash
```

2 Python

2.1 Anaconda

2.1.1 .condarc

channels:

- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/menpo/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/bioconda/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/msys2/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/peterjc123/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/pytorch/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/conda-forge/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/main/
- https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkgs/free/

- defaults

```
show_channel_urls: true auto_activate_base: false
```

2.1.2 pytorch

conda install pytorch torchvision cudatoolkit=8.0 -c pytorch