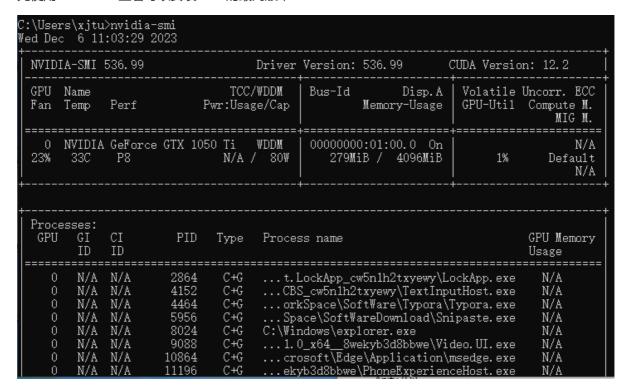
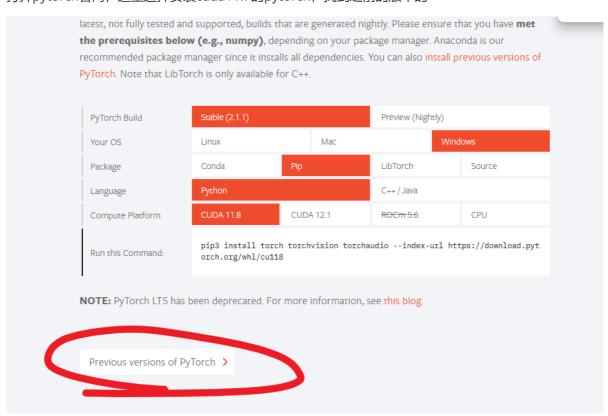
# 1.安装torch

先使用nvidia-smi查看可以安装cuda的最高版本



### 打开pytorch官网,这里选择安装cuda11.7的pytorch,找到之前的版本的



可以使用pip安装

OSX

```
pip install torch==1.13.0 torchvision==0.14.0 torchaudio==0.13.0
```

### Linux and Windows

```
# ROCM 5.2 (Linux only)
pip install torch==1.13.0+rocm5.2 torchvision==0.14.0+rocm5.2 torchaudio==0.13.0 --extra-index-url https://c
# CUDA 11.6
pip install torch==1.13.0+cu116 torchvision==0.14.0+cu116 torchaudio==0.13.0 --extra-index-url https://down:
# CUDA 11.7
pip install torch==1.13.0+cu117 torchvision==0.14.0+cu117 torchaudio==0.13.0 --extra-index-url https://down:
# CPU only
pip install torch==1.13.0+cpu torchvision==0.14.0+cpu torchaudio==0.13.0 --extra-index-url https://download.
```

```
# ROCM 5.2 (Linux only)
pip install torch==1.13.0+rocm5.2 torchvision==0.14.0+rocm5.2 torchaudio==0.13.0
--extra-index-url https://download.pytorch.org/whl/rocm5.2
# CUDA 11.6
pip install torch==1.13.0+cu116 torchvision==0.14.0+cu116 torchaudio==0.13.0 --
extra-index-url https://download.pytorch.org/whl/cu116
# CUDA 11.7
pip install torch==1.13.0+cu117 torchvision==0.14.0+cu117 torchaudio==0.13.0 --
extra-index-url https://download.pytorch.org/whl/cu117
# CPU only
pip install torch==1.13.0+cpu torchvision==0.14.0+cpu torchaudio==0.13.0 --extra-index-url https://download.pytorch.org/whl/cpu
```

# 2.安装CUDA

搜索cuda11.7



约 58,100,000 个结果



**NVIDIA** Developer

https://developer.nvidia.com/cuda-11-7-0-download-archive >

## CUDA Toolkit 11.7 Downloads | NVIDIA Developer

网页 Download the CUDA Toolkit 11.7 for your target platform from the official NVIDIA archive. The CUDA Toolkit 11.7 supports the latest features and functions of the CUDA ...

### 进一步探索

CUDA Toolkit 11.7 Update 1 Downloads | NVIDIA Developer

developer.nvidia.com

CUDA Toolkit 11.8 New Features Revealed | NVIDIA ...

developer.nvidia.com

NVIDIA CUDA Toolkit - Download & Review - softpedia

softpedia.com

Install CUDA 11.2, cuDNN 8.1.0, PyTorch v1.8.0 (or v1.9.0 ... - ...

medium.com

CUDA Installation Guide for Linux - NVIDIA Docs

docs.nvidia.com

根据热度为您推荐•反馈

### 进入CUDA, 加载的时间优点长

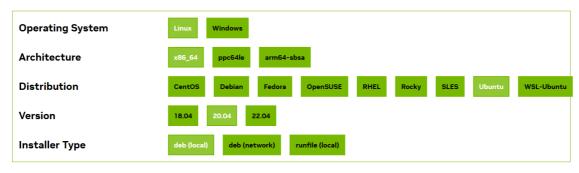
然后选择cuda11.7 linux 对应ubuntu版本的,根据命令行下载即可

https://developer.nvidia.com/cuda-11-7-0-download-archive? target\_os=Linux&target\_arch=x86\_64&Distribution=Ubuntu&target\_version=20.04&target\_type=deb\_local

# **CUDA Toolkit 11.7 Downloads**

### Select Target Platform

Click on the green buttons that describe your target platform. Only supported platforms will be shown. By downloading and using the software, you agree to fully comply with the terms and conditions of the CUDA EULA.

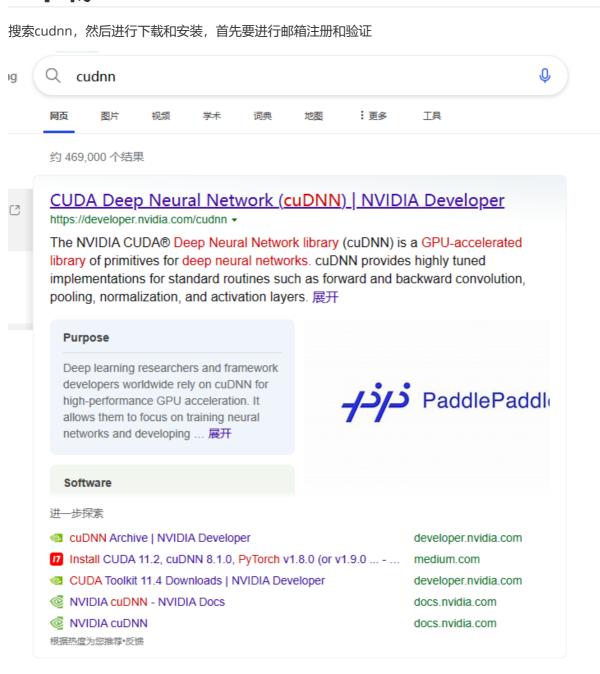




根据下面的命令进行安装即可

# wget https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2004/x86\_64/cudaubuntu2004.pin sudo mv cuda-ubuntu2004.pin /etc/apt/preferences.d/cuda-repository-pin-600 wget https://developer.download.nvidia.com/compute/cuda/11.7.0/local\_installers/cudarepo-ubuntu2004-11-7-local\_11.7.0-515.43.04-1\_amd64.deb sudo dpkg -i cuda-repo-ubuntu2004-11-7-local\_11.7.0-515.43.04-1\_amd64.deb sudo cp /var/cuda-repo-ubuntu2004-11-7-local/cuda-\*-keyring.gpg /usr/share/keyrings/ sudo apt-get update sudo apt-get -y install cuda

# 3.下载cudnn



Download cuDNN v8.9.7 (December 5th, 2023), for CUDA 12.x

Download cuDNN v8.9.7 (December 5th, 2023), for CUDA 11.x

### Local Installers for Windows and Linux, Ubuntu(x86\_64, armsbsa)

Local Installer for Windows (Zip)

Local Installer for Linux x86\_64 (Tar)

Local Installer for Linux PPC (181)

Local Installer for Linux SBSA (Tar)

Local Installer for Debian 11 (Deb)

Local Installer for Ubuntu18.04 x86\_64 (Deb)

Local Installer for Ubuntu20.04 x86\_64 (Deb)

Local Installer for Ubuntu22.04 x86\_64 (Deb)

Local Installer for Ubuntu20.04 aarch64sbsa (Deb)

Local Installer for Ubuntu22.04 aarch64sbsa (Deb)

Local Installer for Ubuntu20.04 cross-sbsa (Deb)

Local Installer for Ubuntu22.04 cross-sbsa (Deb)

### Local Installers for Red Hat (x86\_64, armsbsa, Power architecture)

Local Installer for RedHat/Centos 7.1 x86\_64 (RPM)

Local Installer for RedHat/Centos 8.1 x86\_64 (RPM)

Local Installer for RedHat/Centos 8.1 aarch64sbsa (RPM)

Local Installer for RedHat/Centos 8.1 PPC (RPM)

### 下载以后会得到一个安装包,然后进行解压

### 在解压得到的目录进行复制

```
sudo cp cudnn-*-archive/include/cudnn*.h /usr/local/cuda/include
sudo cp cudnn-*-archive/lib/libcudnn* /usr/local/cuda/lib64
sudo chmod a+r /usr/local/cuda/include/cudnn*.h /usr/local/cuda/lib64/libcudnn*
```

# 4.验证安装

```
import torch
print(torch.__version__)
print(torch.cuda.is_available())
```

如果返回True, 说明安装成功