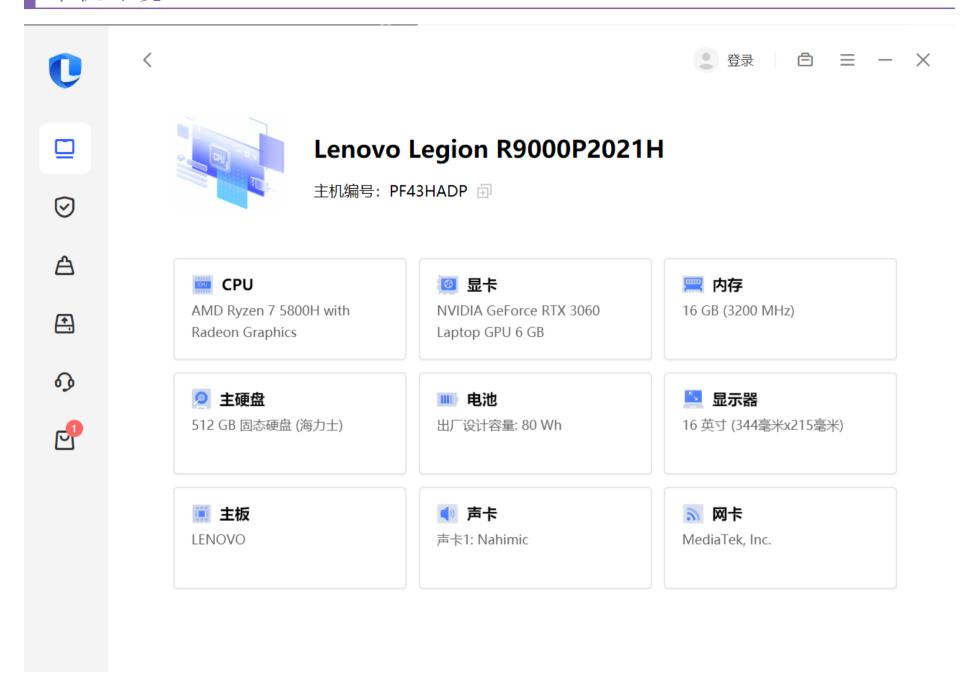# Win11安装Pytorch实践

本机环境

pytorch安装

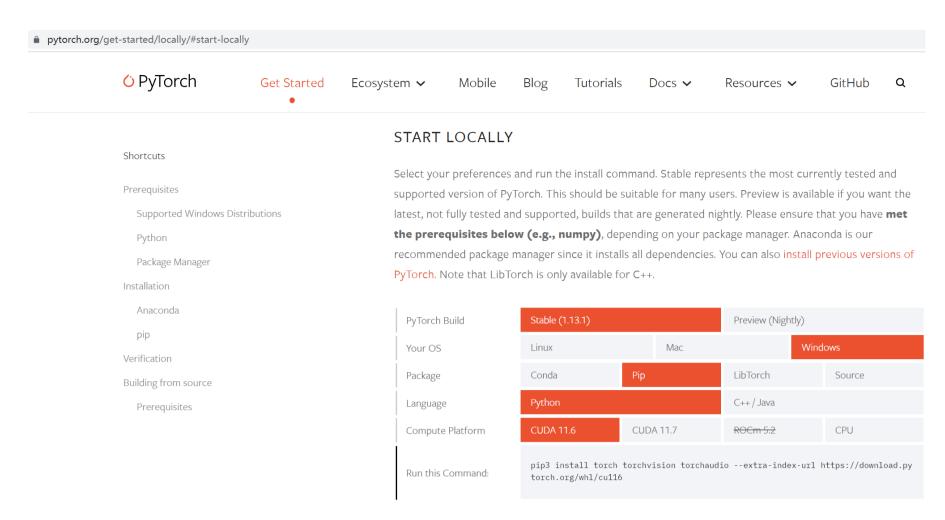进入pytorch官网下载页面：https://pytorch.org/get-started/locally/#start-locally

安装之前的版本进入网页：https://pytorch.org/get-started/previous-versions/

之前看过某篇博客说安装cuda低版本的torch的也是可以的。还有一种方式下载wheel, https://download.pytorch.org/whl/torch_stable.html。

1. 命令行（一般得用科学的方式才能下载成功）：

```
pip3 install torch torchvision torchaudio --extra-index-url https://download.pytorch.org/whl/cu116
```

2. wheel下载方式：https://download.pytorch.org/whl/torch_stable.html。

找到下载链接，复制到迅雷里下载，防止浏览器下载断了不容易断点恢复下载。

```
pip install torch-1.13.1+cu116-cp39-cp39-win_amd64.whl

pip install torchvision-0.14.1+cu116-cp39-cp39-win_amd64.whl

pip install torchaudio-0.13.1+cu116-cp39-cp39-win_amd64.whl
```

```
D:\迅雷下载>pip install torchvision-0.13.0+cu116-cp39-cp39-win_amd64.whl
Processing d:\迅雷下载\torchvision-0.13.0+cu116-cp39-cp39-win_amd64.whl
Requirement already satisfied: typing-extensions in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.13.0+cu116) (4.0.1)
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.13.0+cu116) (8.4.0)
Requirement already satisfied: requests in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.13.0+cu116) (2.26.0)
Requirement already satisfied: numpy in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.13.0+cu116) (1.21.5)
Collecting torch==1.12.0
  Downloading torch-1.12.0-cp39-cp39-win_amd64.whl (161.8 MB)
     |                                | 317 kB 6.8 kB/s eta 6:34:22
ERROR: Operation cancelled by user
WARNING: You are using pip version 21.3.1; however, version 23.0.1 is available.
You should consider upgrading via the 'C:\puzzle\softwareInstall\Program Files\Python39\python.exe -m pip install --upgrade pip' command.

D:\迅雷下载>pip install torchvision-0.13.0+cu116-cp39-cp39-win_amd64.whl

D:\迅雷下载>pip install torchvision-0.14.1+cu116-cp39-cp39-win_amd64.whl
Processing d:\迅雷下载\torchvision-0.14.1+cu116-cp39-cp39-win_amd64.whl
Requirement already satisfied: torch==1.13.1 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.14.1+cu116) (1.13.1+cu116)
Requirement already satisfied: requests in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.14.1+cu116) (2.26.0)
Requirement already satisfied: typing-extensions in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.14.1+cu116) (4.0.1)
Requirement already satisfied: numpy in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.14.1+cu116) (1.21.5)
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchvision==0.14.1+cu116) (8.4.0)
Requirement already satisfied: certifi>=2017.4.17 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from requests->torchvision==0.14.1+cu116) (2021.10.8)
Requirement already satisfied: charset-normalizer~=2.0.0 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from requests->torchvision==0.14.1+cu116) (2.0.9)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from requests->torchvision==0.14.1+cu116) (1.26.7)
Requirement already satisfied: idna<4,>=2.5 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from requests->torchvision==0.14.1+cu116) (3.3)
Installing collected packages: torchvision
Successfully installed torchvision-0.14.1+cu116
WARNING: You are using pip version 21.3.1; however, version 23.0.1 is available.
You should consider upgrading via the 'C:\puzzle\softwareInstall\Program Files\Python39\python.exe -m pip install --upgrade pip' command.

D:\迅雷下载>pip install torchaudio-0.13.1+cu116-cp39-cp39-win_amd64.whl
Processing d:\迅雷下载\torchaudio-0.13.1+cu116-cp39-cp39-win_amd64.whl
Requirement already satisfied: torch==1.13.1 in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torchaudio==0.13.1+cu116) (1.13.1+cu116)
Requirement already satisfied: typing-extensions in c:\puzzle\softwareinstall\program files\python39\lib\site-packages (from torch==1.13.1->torchaudio==0.13.1+cu116) (4.0.1)
Installing collected packages: torchaudio
Successfully installed torchaudio-0.13.1+cu116
WARNING: You are using pip version 21.3.1; however, version 23.0.1 is available.
You should consider upgrading via the 'C:\puzzle\softwareInstall\Program Files\Python39\python.exe -m pip install --upgrade pip' command.

D:\迅雷下载>python
Python 3.9.9 (tags/v3.9.9:ccb0e6a, Nov 15 2021, 18:08:50) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import torch
>>>
>>> print(torch.cuda.is_available())
True
>>>
```
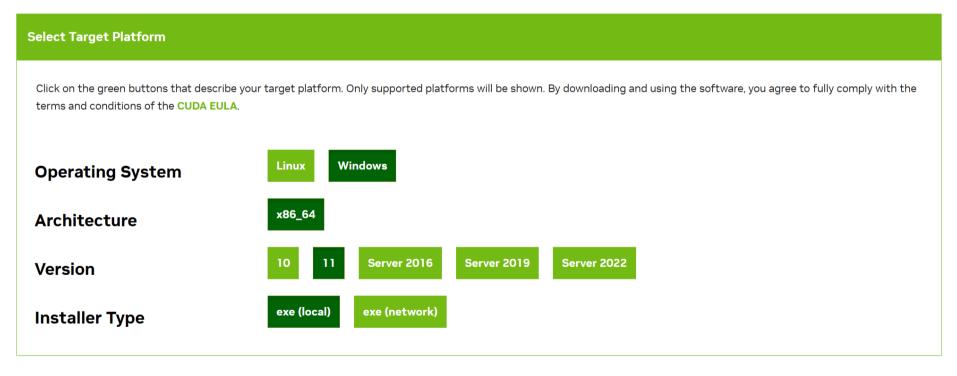
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CUDA Toolkit 11.6 Update 2 Downloads | NVIDIA Developer

https://developer.download.nvidia.com/compute/cuda/11.6.2/local_installers/cuda_11.6.2_511.65_windows.exe

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NVIDIA cuDNN is a GPU-accelerated library of primitives for deep neural networks.

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参考

https://blog.csdn.net/aiboom/article/details/120577678 cudnn复制到cuda里，看cuda的环境变量，没有自己添加，我的发现已经有了

https://blog.csdn.net/Mind_programmonkey/article/details/99688839 看cuda安装过程，哪些安装哪些不安装，这个自己搜搜也行，当前有的就不要用低版本覆盖，没有就可以选

https://blog.csdn.net/qq_46126258/article/details/112708781 这个提供了迅雷下载的思路

----不要看下面这个-----

使用清华源命令行安装的有这个问题，不过已经卸载了，这种方式不行。

https://blog.csdn.net/qq_46941656/article/details/119701547