

Mamba 环境配置

论文题目: **Mamba: Linear-Time Sequence Modeling with Selective State Spaces**

GitHub 地址: [state-spaces/mamba \(github.com\)](https://github.com/state-spaces/mamba)

一些要求:

- [Option] `pip install causal-conv1d>=1.2.0` : an efficient implementation of a simple causal Conv1d layer used inside the Mamba block.
- `pip install mamba-ssm` : the core Mamba package.

It can also be built from source with `pip install .` from this repository.

If `pip` complains about PyTorch versions, try passing `--no-build-isolation` to `pip`.

Other requirements:

- Linux
- NVIDIA GPU
- PyTorch 1.12+
- CUDA 11.6+

(可以不用看, 直接进入下面的安装步骤)

安装(<https://blog.csdn.net/yyywxk/article/details/136071016>):

一步一步来就好:

```
conda create -n your_env_name python=3.10.13
```

```
conda activate your_env_name
```

```
conda install cudatoolkit==11.8 -c nvidia
```

```
pip install torch==2.1.1 torchvision==0.16.1 torchaudio==2.1.1 --index-url  
https://download.pytorch.org/whl/cu118
```

```
conda install -c "nvidia/label/cuda-11.8.0" cuda-nvcc
```

```
conda install packaging
```

```
pip install causal-conv1d==1.1.1
```

```
pip install mamba-ssm
```

中间安装失败了重来, 可能会遇到卡在某一步安装过程, 可以看一下内存是否波动

注意：Mamba 虽然确实热门，但是也有着局限性，比如说加上 Mamba 模块之后训练时间大大增加的问题，比如说它的本身设计是只能在 Linux 运行，当然费大劲也是可以在 Windows 运行的，但是这样的话，我建议大家不如直接租个服务器，Autodl 什么的

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