

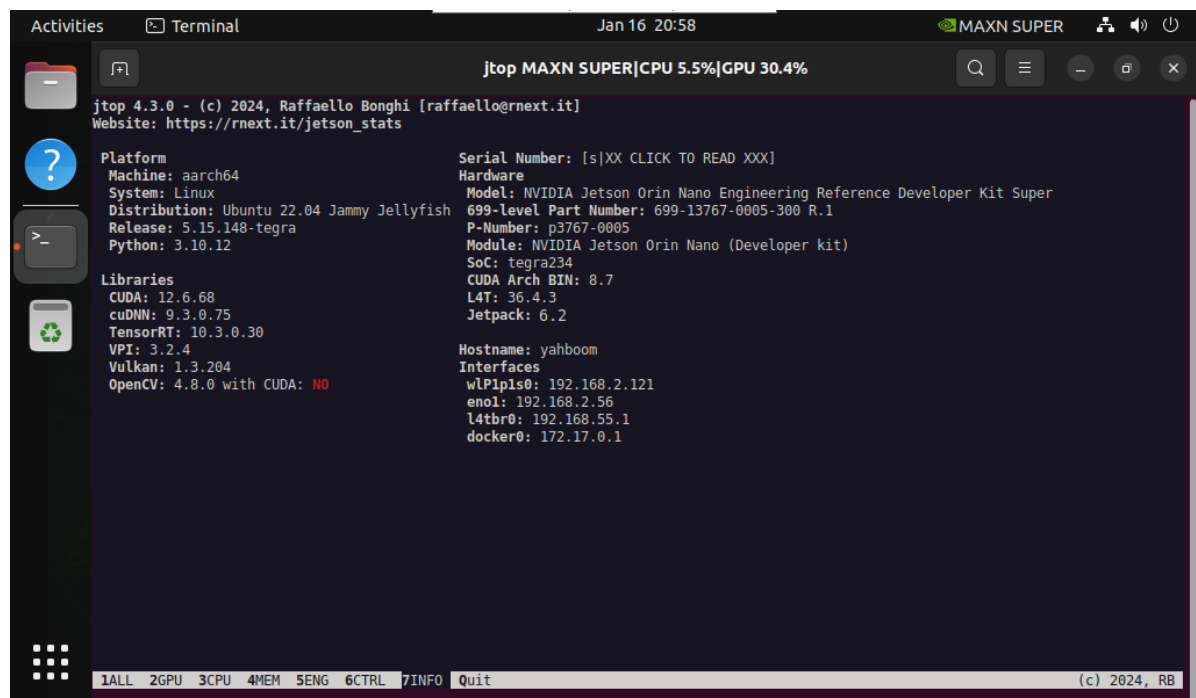
PyTorch

PyTorch

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PyTorch is an open source deep learning framework developed by Meta (formerly Facebook), known for its flexibility and ease of use, and widely used in academic research and industrial applications.

1. System information



```
Activities  Terminal  Jan 16 20:58  MAXN SUPER  [jtop MAXN SUPER|CPU 5.5%|GPU 30.4%]
jtop 4.3.0 - (c) 2024, Raffaello Bonghi [raffaello@rnext.it]
Website: https://rnext.it/jetson_stats

Platform
Machine: aarch64
System: Linux
Distribution: Ubuntu 22.04 Jammy Jellyfish
Release: 5.15.148-tegra
Python: 3.10.12

Serial Number: [s|XX CLICK TO READ XXX]
Hardware
Model: NVIDIA Jetson Orin Nano Engineering Reference Developer Kit Super
699-level Part Number: 699-13767-0005-300 R.1
P-Number: p3767-0005
Module: NVIDIA Jetson Orin Nano (Developer kit)
SoC: tegra234
CUDA Arch BIN: 8.7
L4T: 36.4.3
Jetpack: 6.2

Libraries
CUDA: 12.6.68
cuDNN: 9.3.0.75
TensorRT: 10.3.0.30
VPI: 3.2.4
Vulkan: 1.3.204
OpenCV: 4.8.0 with CUDA: NO

Hostname: yahboom
Interfaces
wlp1s0: 192.168.2.121
enol: 192.168.2.56
l4tbr0: 192.168.55.1
docker0: 172.17.0.1

1ALL 2GPU 3CPU 4MEM 5ENG 6CTRL 7INFO Quit (c) 2024, RB
```

2. Install dependencies

```
wget
https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/arm64/cuda-
keyring_1.1-1_all.deb
sudo dpkg -i cuda-keyring_1.1-1_all.deb
sudo apt update
sudo apt -y install libcusparselt0 libcusparselt-dev -y
```

```
sudo apt remove python3-sympy
```

3. Install PyTorch

To install PyTorch, choose either offline or online!

3.1, Offline installation

Manually go to the download website to download the specified PyTorch version.

Download website: <https://developer.download.nvidia.com/compute/redist/jp/v61/pytorch/>

```
cd Downloads/
```

```
sudo pip3 install torch-2.5.0a0+872d972e41.nv24.08.17622132-cp310-cp310-  
linux_aarch64.whl
```

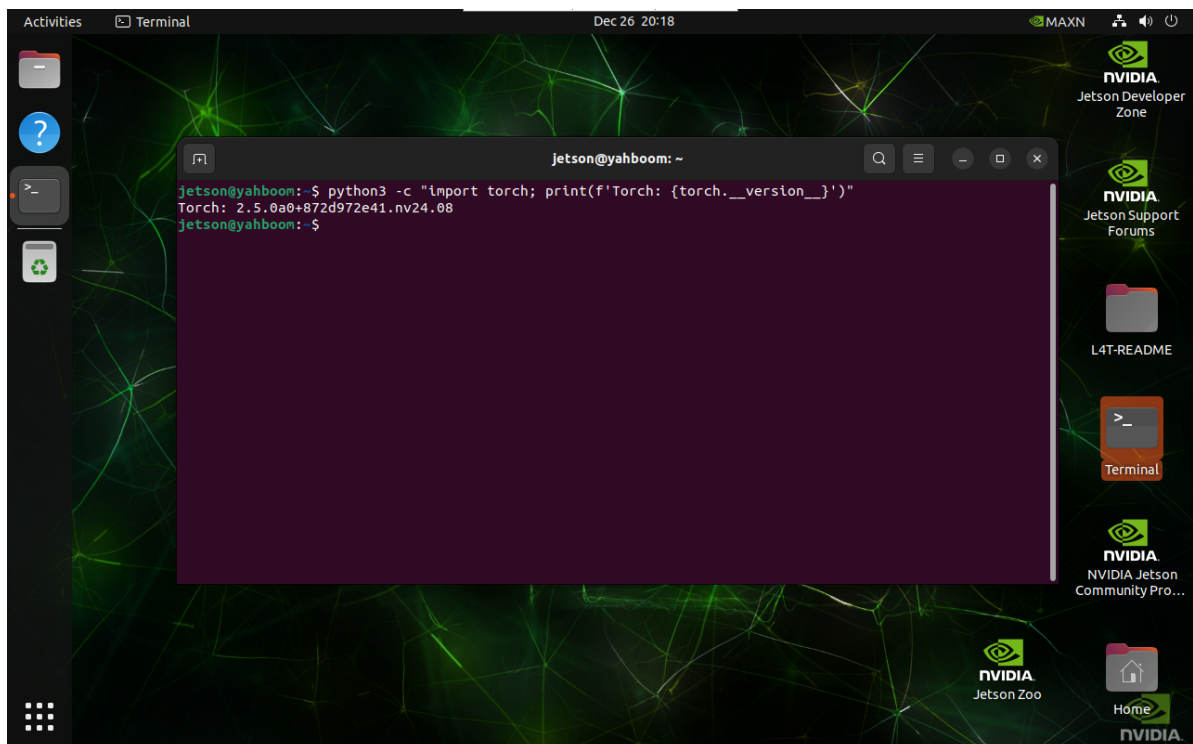
3.2, Online installation

```
export  
TORCH_INSTALL=https://developer.download.nvidia.cn/compute/redist/jp/v61/pytorch  
/torch-2.5.0a0+872d972e41.nv24.08.17622132-cp310-cp310-linux_aarch64.whl
```

```
sudo python3 -m pip install --no-cache $TORCH_INSTALL
```

4. Verify the installation

```
python3 -c "import torch; print(f'Torch: {torch.__version__}')"
```



References

<https://docs.nvidia.com/deeplearning/frameworks/install-pytorch-jetson-platform/index.html>

<https://developer.nvidia.com/cusparselt-downloads>

