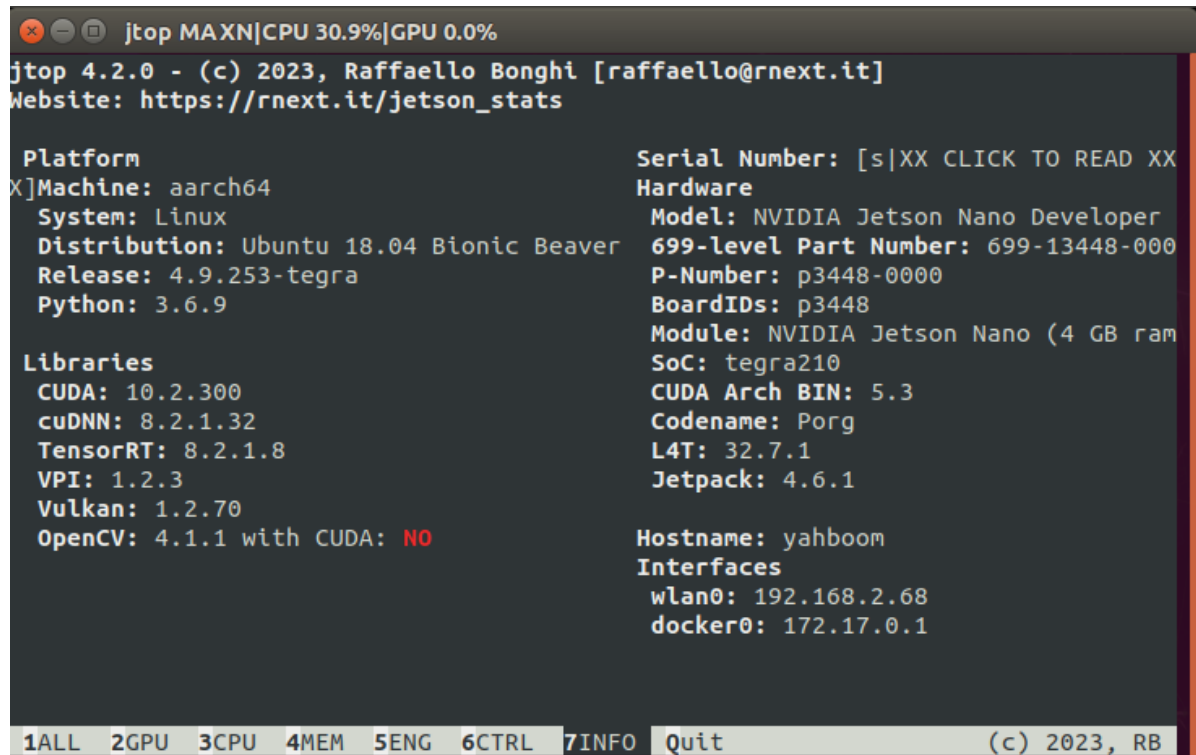


# Setting up the Mediapipe environment

## 1. Instructions before use

This tutorial is applicable to self built images. If you are using the YAHBOOM version of the image, this tutorial can be ignored. The environment configuration for this tutorial is shown in the following figure



```
jtop MAXN|CPU 30.9%|GPU 0.0%
jtop 4.2.0 - (c) 2023, Raffaello Bonghi [raffaello@rnext.it]
Website: https://rnext.it/jetson_stats

Platform
Machine: aarch64
System: Linux
Distribution: Ubuntu 18.04 Bionic Beaver
Release: 4.9.253-tegra
Python: 3.6.9

Serial Number: [s|XX CLICK TO READ XX]
Hardware
Model: NVIDIA Jetson Nano Developer
699-level Part Number: 699-13448-000
P-Number: p3448-0000
BoardIDs: p3448
Module: NVIDIA Jetson Nano (4 GB ram)
SoC: tegra210
CUDA Arch BIN: 5.3
Codename: Porg
L4T: 32.7.1
Jetpack: 4.6.1

Libraries
CUDA: 10.2.300
cuDNN: 8.2.1.32
TensorRT: 8.2.1.8
VPI: 1.2.3
Vulkan: 1.2.70
OpenCV: 4.1.1 with CUDA: NO

Hostname: yahboom
Interfaces
wlan0: 192.168.2.68
docker0: 172.17.0.1

1ALL 2GPU 3CPU 4MEM 5ENG 6CTRL 7INFO Quit (c) 2023, RB
```

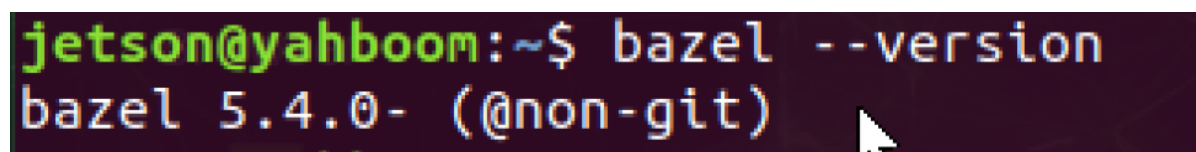
## 2. Environmental construction

1. Directly set up bazel and mediapipe-0.8-cp36-cp36m-Linux in the attachment of the environment\_ Transfer two files aarch64.whl to Jetson nano
2. Run the following command on Jetson nano

```
sudo chmod +x bazel
mv bazel /usr/local/bin
```

Enter the following command: `bazel --version`

The results are shown in the figure:



```
jetson@yahboom:~$ bazel --version
bazel 5.4.0- (@non-git)
```

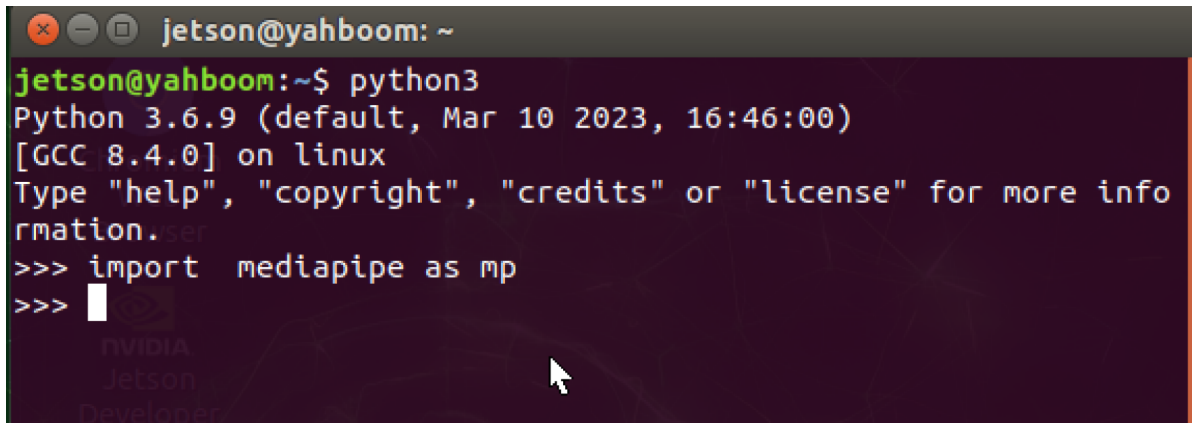
3. install mediapipe

```
pip3 install opencv-contrib-python==3.4.18.65
pip3 install mediapipe-0.8-cp36-cp36m-linux_aarch64.whl
pip3 uninstall opencv-contrib-python #因为jetson nano已经自带的了
```

4. Verify if the installation was successful

```
python3  
  
import mediapipe as mp
```

If there are no errors reported, it indicates successful installation

A terminal window titled 'jetson@yahboom: ~' with a dark background. The prompt is 'jetson@yahboom:~\$'. The user has entered 'python3', which has started the Python 3.6.9 interpreter. The interpreter shows 'Python 3.6.9 (default, Mar 10 2023, 16:46:00)' and '[GCC 8.4.0] on linux'. It prompts for help with 'Type "help", "copyright", "credits" or "license" for more information.'. The user has entered '>>> import mediapipe as mp' and the prompt has moved to the next line '>>>'.

```
jetson@yahboom:~$ python3  
Python 3.6.9 (default, Mar 10 2023, 16:46:00)  
[GCC 8.4.0] on linux  
Type "help", "copyright", "credits" or "license" for more info  
rmation.  
>>> import mediapipe as mp  
>>>
```

## appendix

Other reference tutorials

[https://blog.csdn.net/weixin\\_43659725/article/details/120211312](https://blog.csdn.net/weixin_43659725/article/details/120211312)