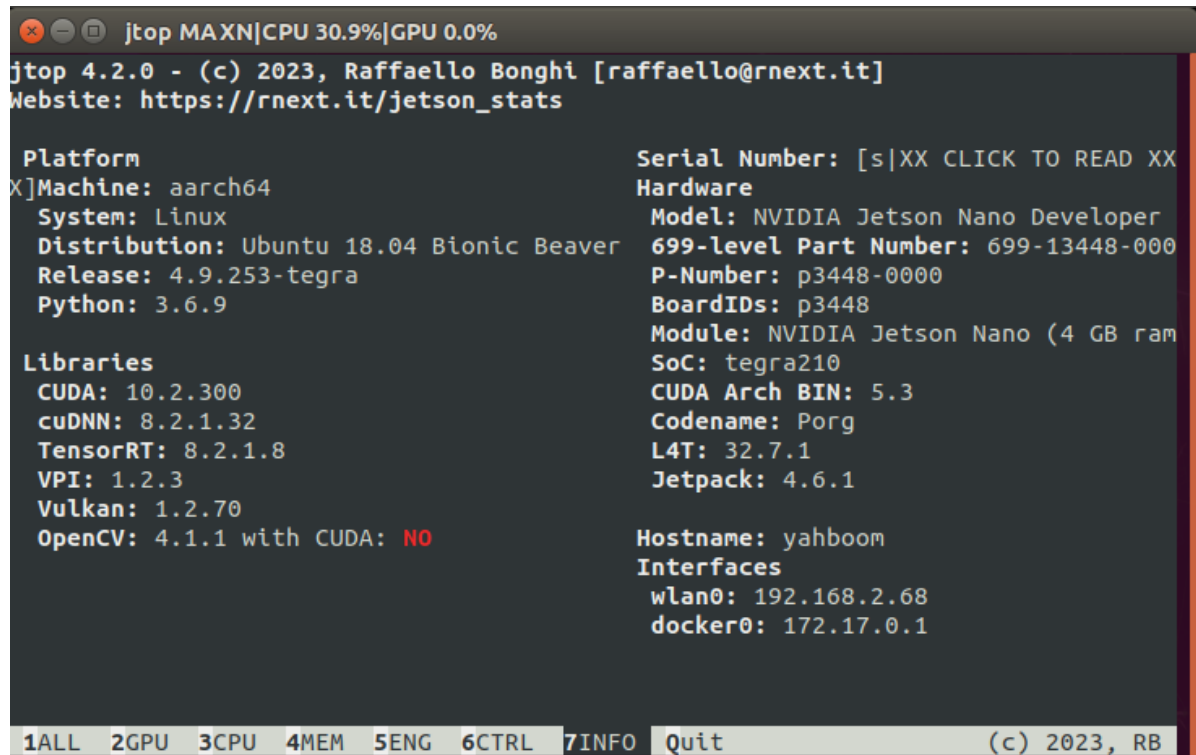


Setting up the Mediapipe environment

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
```

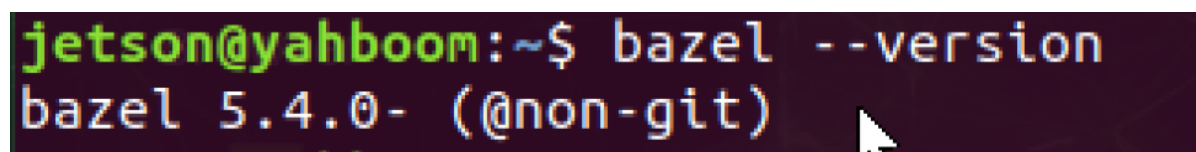
2. Environmental construction

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 B01
2. Run the following command on Jetson Nano B01

```
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

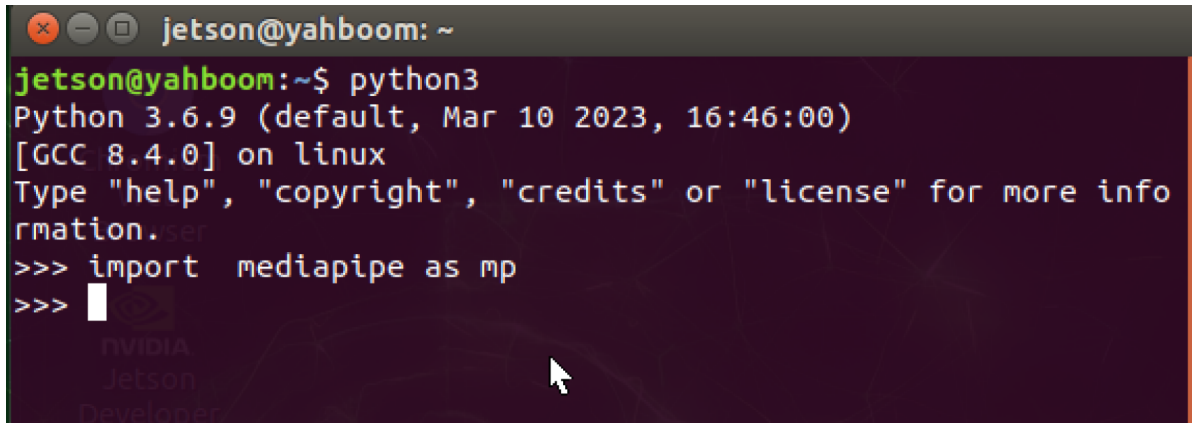
```
pip3 install opencv-contrib-python==3.4.18.65
pip3 install mediapipe-0.8-cp36-cp36m-linux_aarch64.whl
pip3 uninstall opencv-contrib-python #Because Jetson Nano B01 already comes with it
```

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 purple 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 the user to 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 '>>>'. A mouse cursor is visible over the terminal. In the bottom left corner, there is a faint 'NVIDIA Jetson Developer' logo.

```
jetson@yahboom: ~
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
>>> import mediapipe as mp
>>>
```