Mediapipe environment

Mediapipe environment

- 1.Instructions before use
- 2. Environmental construction

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 9.1%|GPU 0.0%
jtop 4.2.1 - (c) 2023, Raffaello Bonghi [raffaello@rnext.it]
Website: kttps://rnext.it/jetson_stats
 Platform
                                  Serial Number: [s|XX CLICK TO READ XXX]
 Machine: aarch64
                                Hardware
 System: Linux
                                  Model: NVIDIA Orin NX Developer Kit
 Distribution: Ubuntu 20.04 focal 699-level Part Number: 699-13767-0000-300 H.
 Release: 5.10.104-tegra P-Number: p3767-0000
                                  Module: NVIDIA Jetson Orin NX (16GB ram)
 Python: 3.8.10
                                  SoC: tegra23x
 Libraries
                                  CUDA Arch BIN: 8.7
 CUDA: 11.4.315
                                  Codename: P3768
 cuDNN: 8.6.0.166
                                   L4T: 35.3.1
  TensorRT: 8.5.2.2
                                  Jetpack: 5.1.1
 VPI: 2.2.7
 Vulkan: 1.3.204
                                  Hostname: ubuntu
 OpenCV: 4.5.4 with CUDA: MO
                                  Interfaces
                                  wlan0: 192.168.2.112
                                  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-0.8.4-cp38-cp38-Linux in the attachment of the environment_ Transfer two files aarch64.whl to Jetson orin nx
- 2. Run the following command on Jetson orin nx

```
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)
```

```
pip3 install opencv-contrib-python==3.4.17.63
pip3 install mediapipe-0.8.4-cp38-cp38-linux_aarch64.whl
pip3 uninstall opencv-contrib-python
```

4. Verify if the installation was successful

```
python3
import mediapipe as mp
```

If there are no errors reported, it indicates successful installation

```
jetson@yahboom: ~
jetson@yahboom: ~
jetson@yahboom: ~
python 3.8.10 (default, Mar 10 2023, 16:46:00)
[GCC 8.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import mediapipe as mp
>>> Import mediapipe as mp
```