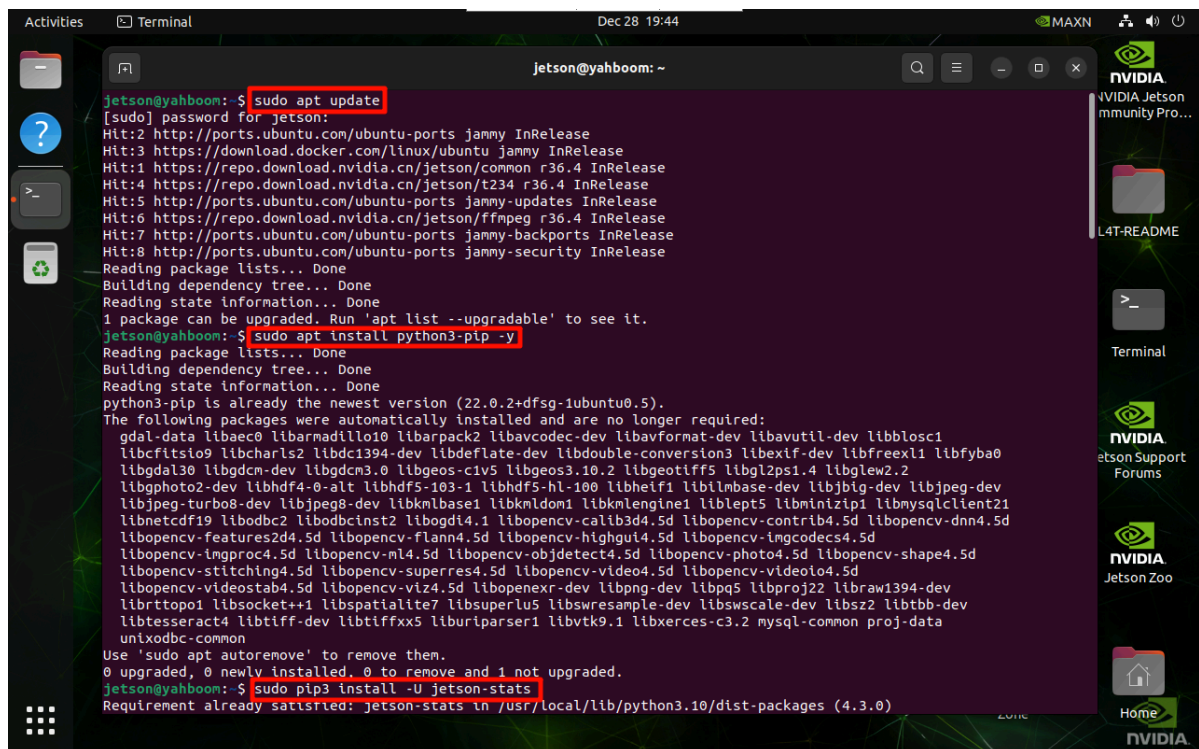


Jtop tool usage

Jtop is a system monitoring tool developed for NVIDIA Jetson series devices. It can display the resource usage of various aspects of Jetson devices, such as CPU, GPU, memory, disk, network, etc., and can display different hardware temperatures, power consumption, frequency, etc. in real time.

1. Install Jtop

```
sudo apt update
sudo apt install python3-pip -y
sudo pip3 install -U jetson-stats
```



```
jetson@yahboom:~$ sudo apt update
[sudo] password for jetson:
Hit:2 http://ports.ubuntu.com/ubuntu-ports jammy InRelease
Hit:3 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:1 https://repo.download.nvidia.cn/jetson/common r36.4 InRelease
Hit:4 https://repo.download.nvidia.cn/jetson/t234 r36.4 InRelease
Hit:5 http://ports.ubuntu.com/ubuntu-ports jammy-updates InRelease
Hit:6 https://repo.download.nvidia.cn/jetson/ffmpeg r36.4 InRelease
Hit:7 http://ports.ubuntu.com/ubuntu-ports jammy-backports InRelease
Hit:8 http://ports.ubuntu.com/ubuntu-ports jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
1 package can be upgraded. Run 'apt list --upgradable' to see it.
jetson@yahboom:~$ sudo apt install python3-pip -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (22.0.2+dfsg-1ubuntu0.5).
The following packages were automatically installed and are no longer required:
  gdal-data libaec0 libarmadillo10 libarpack2 libavcodec-dev libavformat-dev libavutil-dev libblosc1
  libcfitsio9 libcharls2 libdc1394-dev libdeflate-dev libdouble-conversion3 libexif-dev libfreexl1 libfyba0
  libgdal30 libgdcm-dev libgdcm3.0 libgeos-c1v5 libgeos3.10.2 libgeotiff5 libgl2ps1.4 libglew2.2
  libjpeg-turbo8-dev libjpeg8-dev libkmlbase1 libkmldev1 libkmlengine1 libkmlpython1 libkmlstyle1 libkmlwriter1
  libltdl7 libnetcdf19 libodbc2 libodbcinst2 libogdi4.1 libopencv-calib3d4.5d libopencv-contrib4.5d libopencv-dnn4.5d
  libopencv-features2d4.5d libopencv-flann4.5d libopencv-highgui4.5d libopencv-imgcodecs4.5d
  libopencv-ml4.5d libopencv-objdetect4.5d libopencv-photo4.5d libopencv-shape4.5d
  libopencv-stitching4.5d libopencv-superres4.5d libopencv-video4.5d libopencv-videoio4.5d
  libopencv-videostab4.5d libopencv-viz4.5d libopenexr-dev libpng-dev libpq5 libproj22 libraw1394-dev
  librttopo1 libsocket++1 libspatialite7 libsuperlu5 libswresample-dev libswscale-dev libsz2 libtbb-dev
  libtesseract4 libtiff-dev libtiffxx5 liburiparser1 libvtk9.1 libxerces-c3.2 mysql-common proj-data
  unixodbc-common
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
jetson@yahboom:~$ sudo pip3 install -U jetson-stats
Requirement already satisfied: jetson-stats in /usr/local/lib/python3.10/dist-packages (4.3.0)
```

2. Best performance mode

2.2. Enable MAX mode

Enabling MAX Power Mode on Jetson will ensure that all CPU and GPU cores are turned on:

```
sudo nvpmodel -m 0
```

2.2. Enable Jetson Clocks

Enabling Jetson Clocks will ensure that all CPU and GPU cores run at maximum frequency:

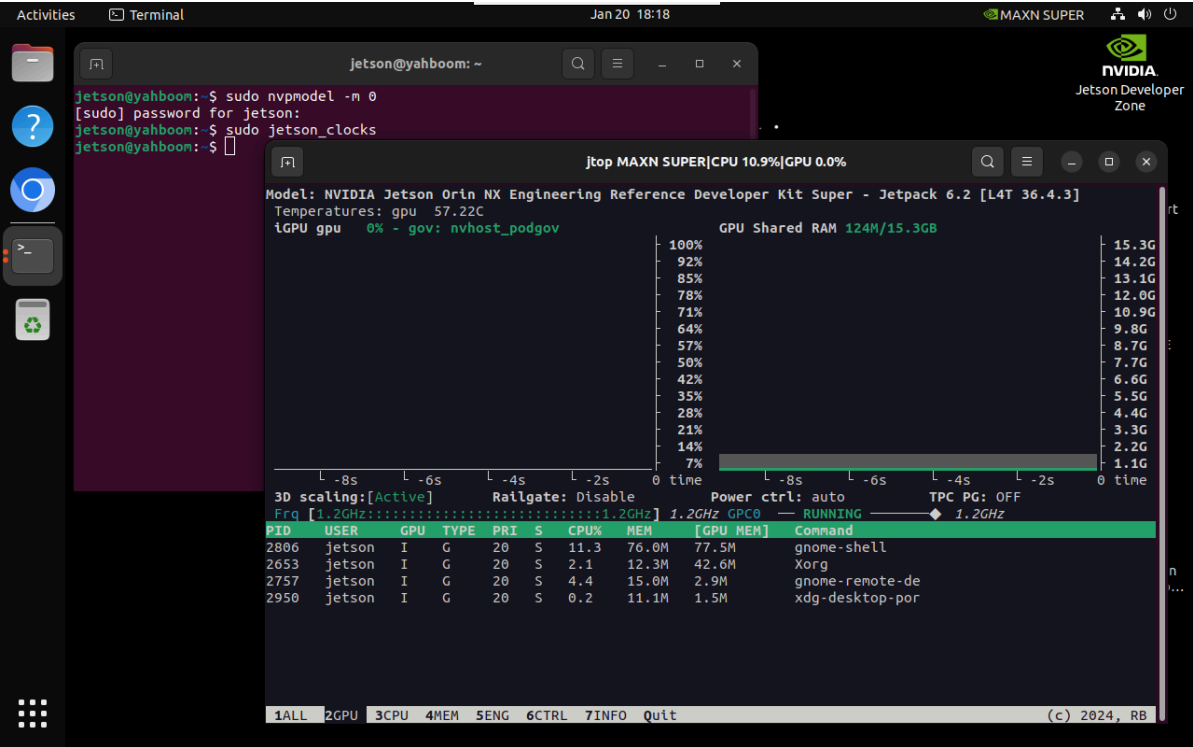
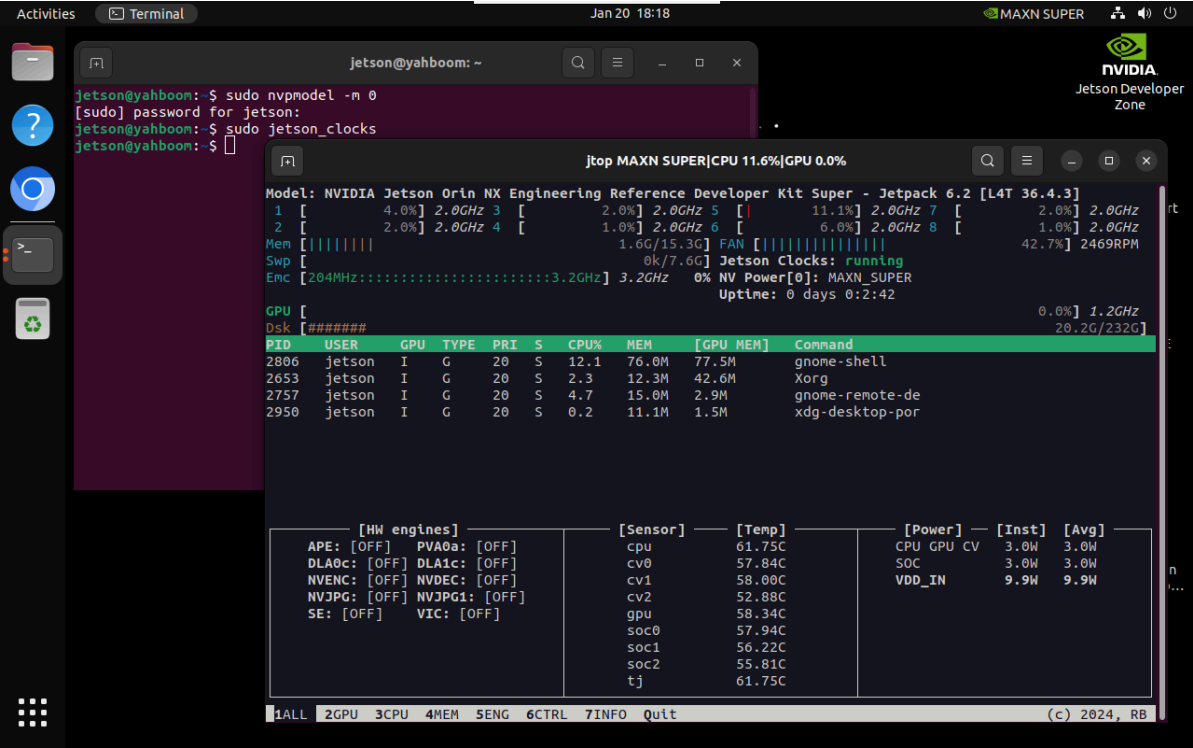
```
sudo jetson_clocks
```

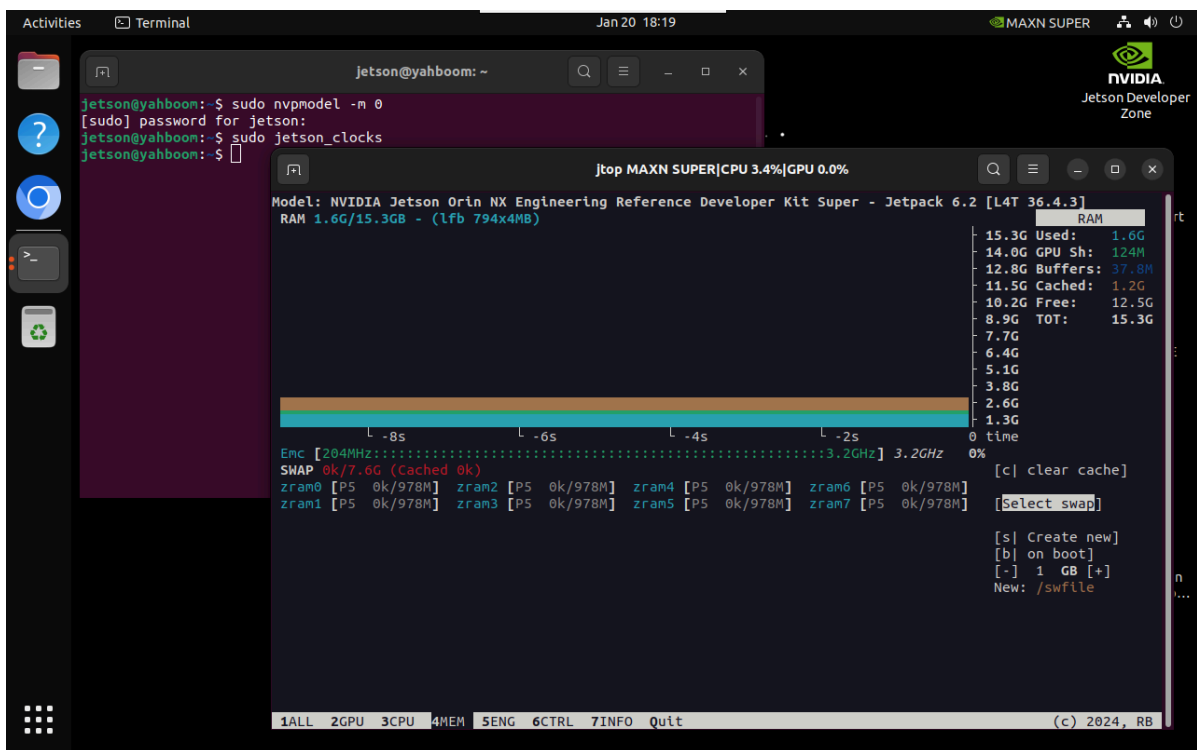
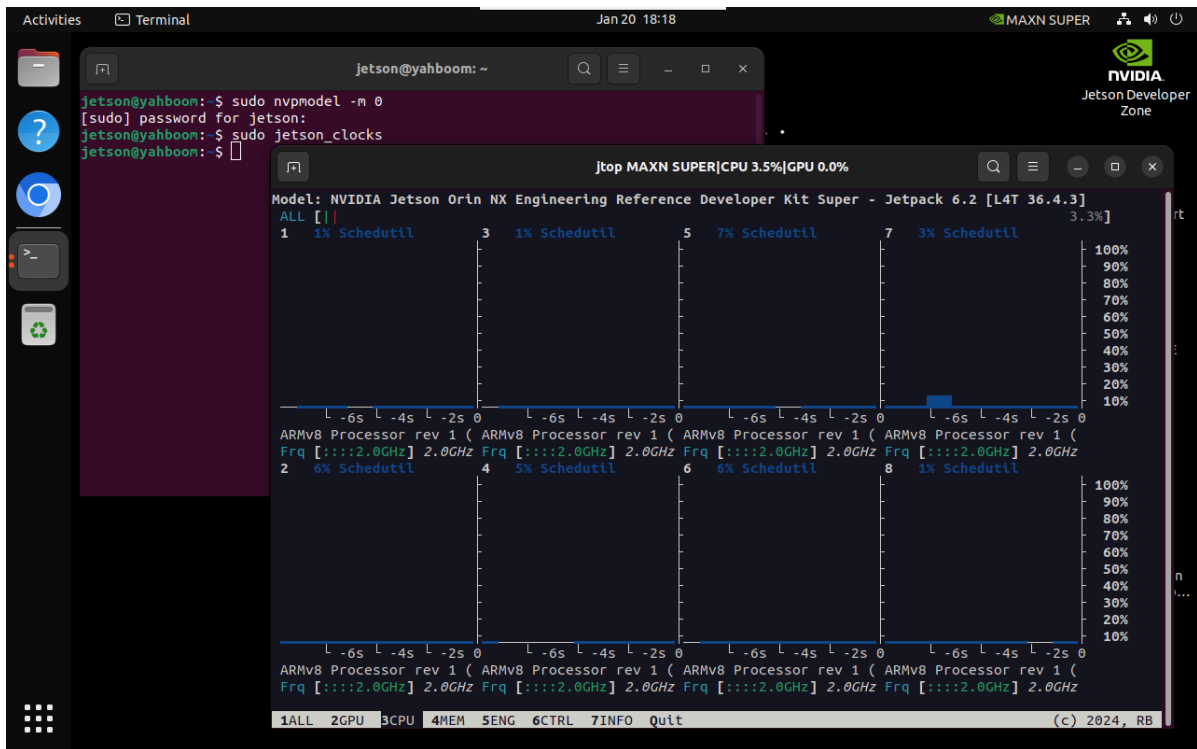
3. Use Jtop

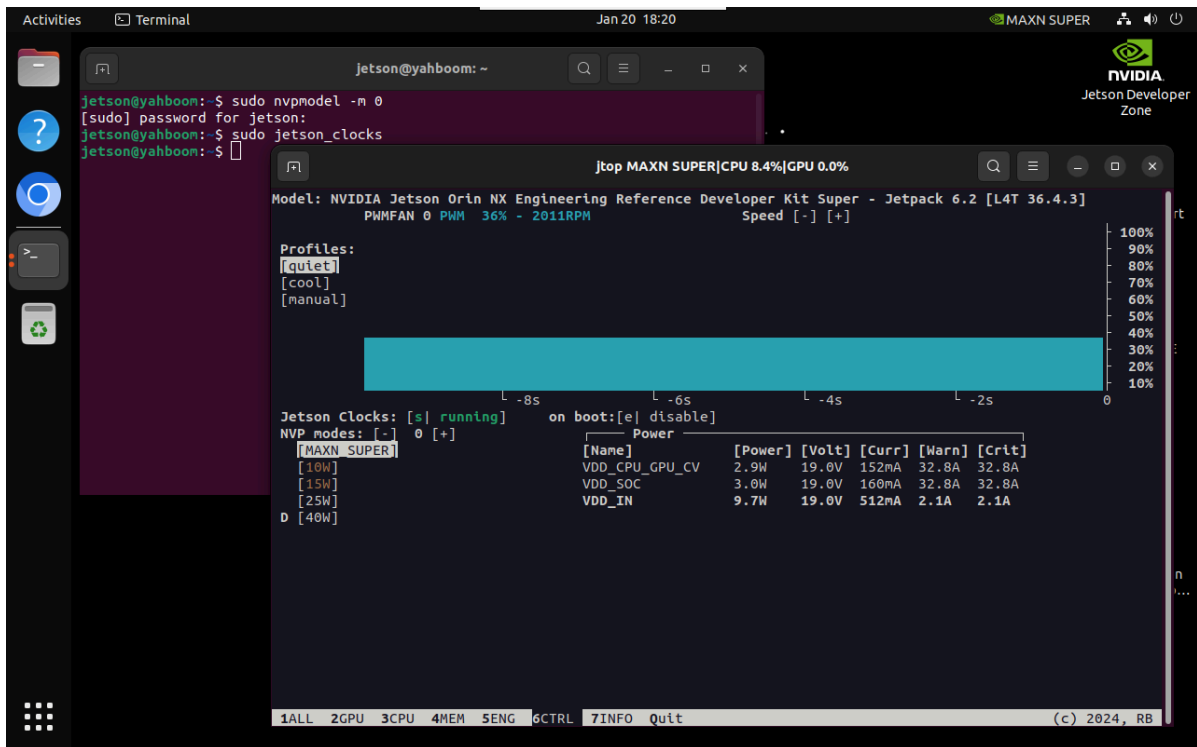
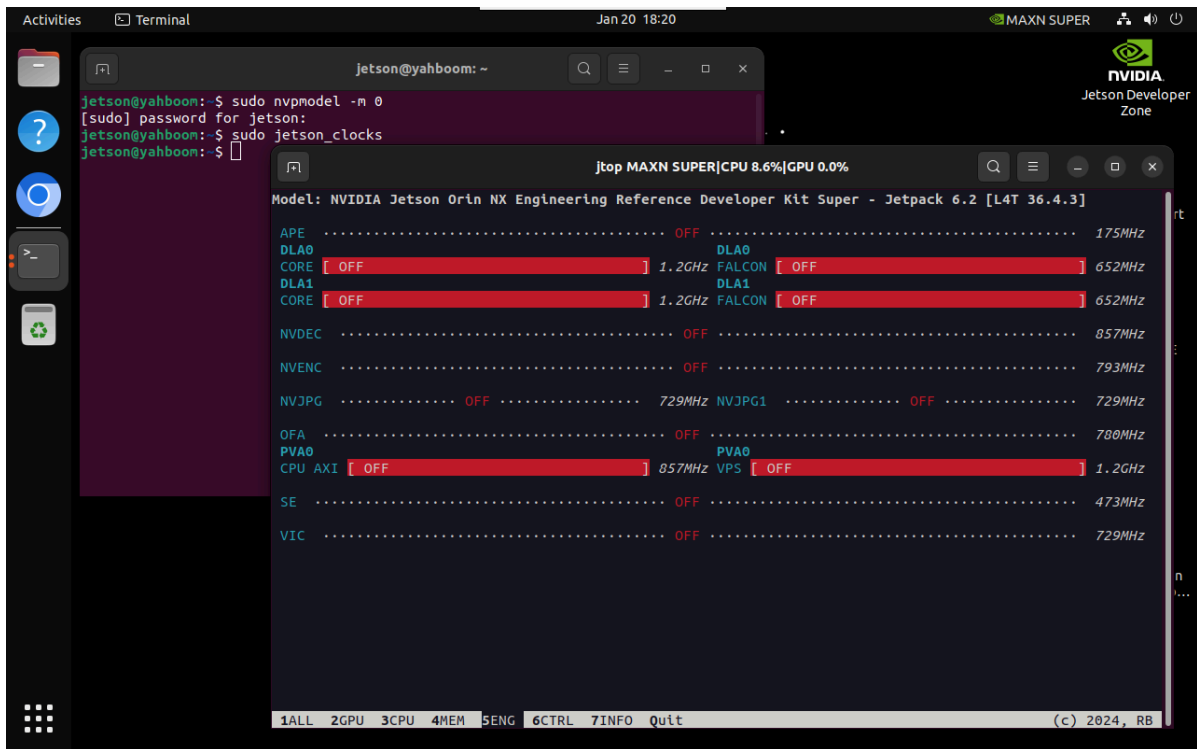
Only after restarting the system can you enter the jtop command in the terminal to start the Jtop tool:

```
jtop
```

Note: Only when the motherboard power mode is selected as MAXN will the strongest performance parameters be displayed!







Activities Terminal Jan 20 18:20 MAXN SUPER NVIDIA Jetson Developer Zone

```
jetson@yahboom:~$ sudo nvpmode -m 0
[sudo] password for jetson:
jetson@yahboom:~$ sudo jetson_clocks
jetson@yahboom:~$
```

jtop MAXN SUPER|CPU 3.1%|GPU 0.0%

jtop 4.3.1 - (c) 2024, Raffaello Bonghi [raffaello@rnext.it]
Website: https://rnext.it/jetson_stats

| | |
|--|--|
| Platform | Serial Number: [s XX CLICK TO READ XXX] |
| Machine: aarch64 | Hardware |
| System: Linux | Model: NVIDIA Jetson Orin NX Engineering Reference Developer |
| Distribution: Ubuntu 22.04 Jammy Jellyfish | 699-level Part Number: 699-13767-0000-300 M.1 |
| Release: 5.15.148-tegra | P-Number: p3767-0000 |
| Python: 3.10.12 | Module: NVIDIA Jetson Orin NX (16GB ram) |
| | SoC: tegra234 |
| Libraries | CUDA Arch BIN: 8.7 |
| CUDA: 12.6.68 | L4T: 36.4.3 |
| cuDNN: 9.3.0.75 | Jetpack: 6.2 |
| TensorRT: 10.3.0.30 | |
| VPI: 3.2.4 | Hostname: yahboom |
| Vulkan: 1.3.204 | Interfaces |
| OpenCV: 4.8.0 with CUDA: NO | eno1: 192.168.2.62 |
| | l4tbr0: 192.168.55.1 |
| | docker0: 172.17.0.1 |

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