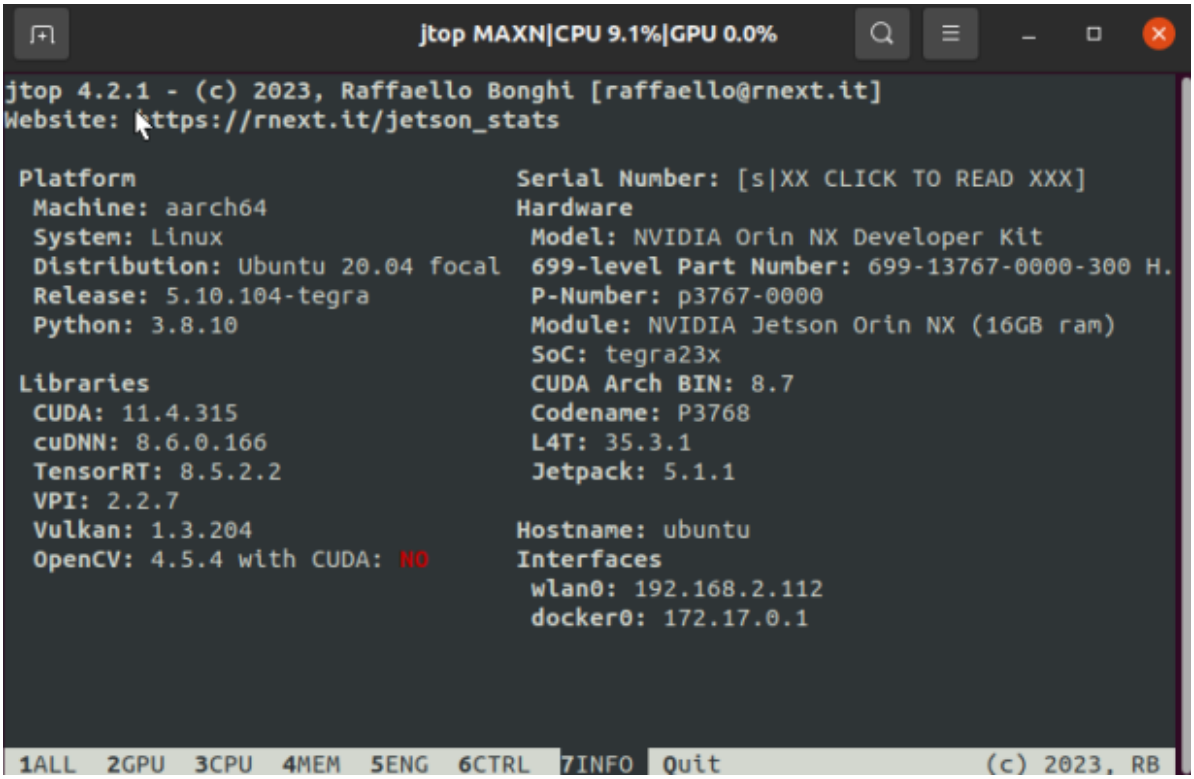
DeepStream construction

1.Pre construction instructions

This tutorial is applicable to self built images. If you are using the YAHBOOM version of the image, you can ignore this tutorial

2.Jetson orin nx configuration for this tutorial



After checking on the official website, this configuration can be downloaded from Deepstream version 6.2

LINKS：https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS_Quickstart.html#update-bsp-library

3.Start building

3.1 Download related dependencies

```
sudo apt install \
libssl1.1 \
libgstreamer1.0-0 \
gstreamer1.0-tools \
gstreamer1.0-plugins-good \
gstreamer1.0-plugins-bad \
gstreamer1.0-plugins-ugly \
gstreamer1.0-libav \
libgstreamer-plugins-base1.0-dev \
libgstrtspserver-1.0-0 \
libjansson4 \
libyaml-cpp-dev
```

3.2 Download and install librdkafka

```
git clone https://github.com/edenhill/librdkafka.git
cd librdkafka
git reset --hard 7101c2310341ab3f4675fc565f64f0967e135a6a
./configure
make -j2
sudo make install
sudo mkdir -p /opt/nvidia/deepstream/deepstream-6.2/lib
sudo cp /usr/local/lib/librdkafka* /opt/nvidia/deepstream/deepstream-6.2/lib
```

3.3 Installing Deepsteam

Find it by logging in here
https://developer.nvidia.com/embedded/deepstream-on-jetson-downloads-archived
deepstream_sdk_v6.2.0_jetson.tbz2，And download it.
Or you can find the deepstream in the attachment of the environment we deepstream_sdk_v6.2.0_jetson.tbz2 and transmit it to Jetson orin nx

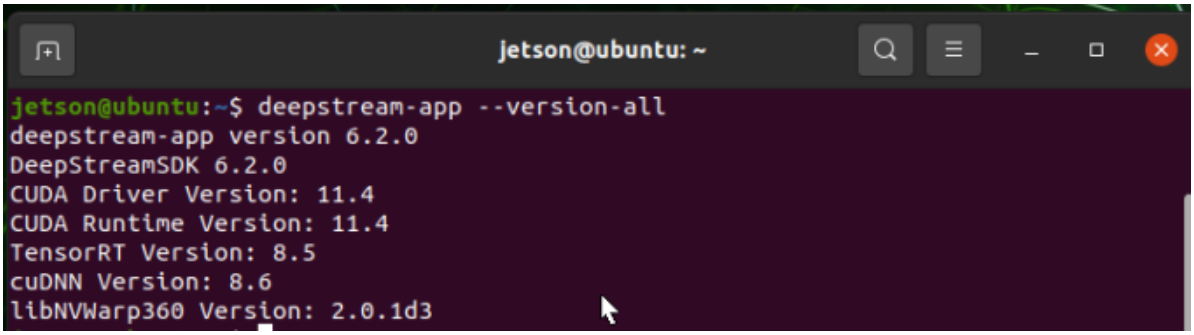
install

```
sudo tar -xvf deepstream_sdk_v6.2.0_jetson.tbz2 -C /
cd /opt/nvidia/deepstream/deepstream-6.2
sudo ./install.sh
sudo ldconfig
```

4.test and verify

1. To view the installation version

```
deepstream-app --version-all
```



2. Run a case study

```
cd /opt/nvidia/deepstream/deepstream/samples/configs/deepstream-app
sudo deepstream-app -c source2_1080p_dec_infer-resnet_demux_int8.txt
```

Wait for a period of time, and the result shown in the figure indicates that the deepstream installation was successful.

appendix

Other reference links:
https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS_Quickstart.html#update-bsp-library