

## **DeepStream construction**

#### **DeepStream construction**

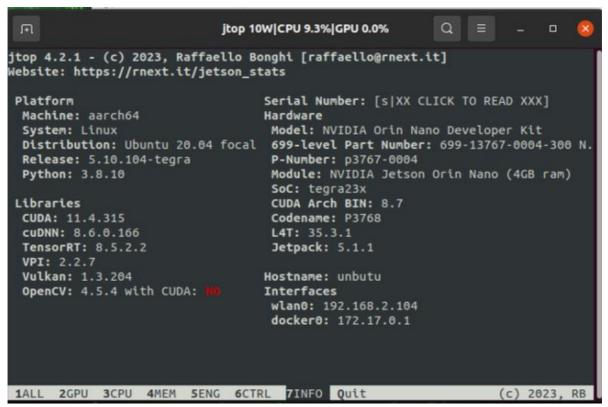
- 1.Pre construction instructions
- 2. Jetson orin nano configuration for this tutorial
- 3.Start building
  - 3.1 Download related dependencies
  - 3.2 Download and install librdkafka
  - 3.3 Installing Deepsteam
  - 4.test and verify

appendix

#### 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 nano configuration for this tutorial



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

LINKS: <a href="https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS">https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS</a> Quickstart.html#upda te-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/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 nano

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
```

```
jetson@ubuntu:~$ deepstream-app --version-all
deepstream-app version 6.2.0
DeepStreamSDK 6.2.0
CUDA Driver Version: 11.4
CUDA Runtime Version: 11.4
TensorRT Version: 8.5
cuDNN Version: 8.6
libNVWarp360 Version: 2.0.1d3
```

# appendix

Other reference links:

https://zhuanlan.zhihu.com/p/460637017

https://docs.nvidia.com/metropolis/deepstream/dev-guide/text/DS\_Quickstart.html#update-bsp-library