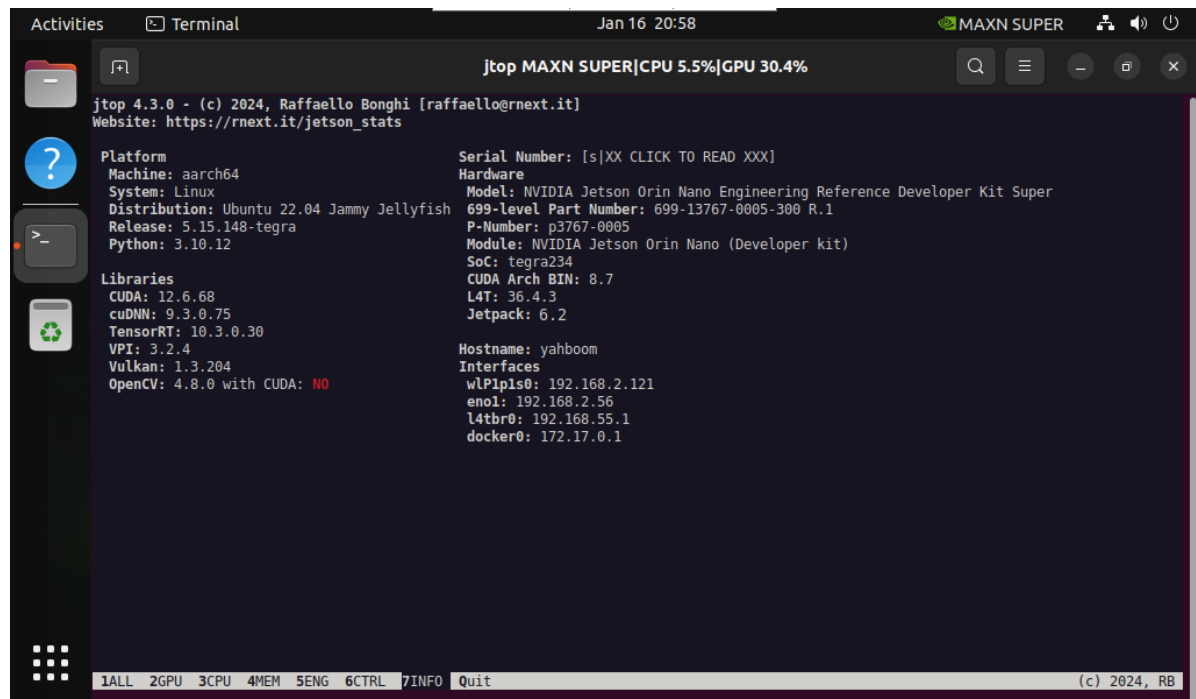


DeepStream environment

DeepStream environment

1. System information
 2. Install DeepStream
 3. Verify installation
- Run the example

1. System information



The screenshot shows a terminal window titled "jtop MAXN SUPER|CPU 5.5%|GPU 30.4%". The terminal displays the output of the jtop 4.3.0 command, which provides system information for the device. The information is organized into several sections: Platform, Hardware, Libraries, Serial Number, Hostname, and Interfaces. The Platform section shows the machine is aarch64, running Linux Ubuntu 22.04 Jammy Jellyfish. The Hardware section shows the model is NVIDIA Jetson Orin Nano Engineering Reference Developer Kit Super. The Libraries section shows the versions of CUDA, cuDNN, TensorRT, VPI, Vulkan, and OpenCV. The Serial Number section shows the device's serial number. The Hostname section shows the device's hostname is yahboom. The Interfaces section shows the IP addresses for the device's network interfaces.

```
jtop 4.3.0 - (c) 2024, Raffaello Bonghi [raffaello@rnext.it]
Website: https://rnext.it/jetson_stats

Platform
Machine: aarch64
System: Linux
Distribution: Ubuntu 22.04 Jammy Jellyfish
Release: 5.15.148-tegra
Python: 3.10.12

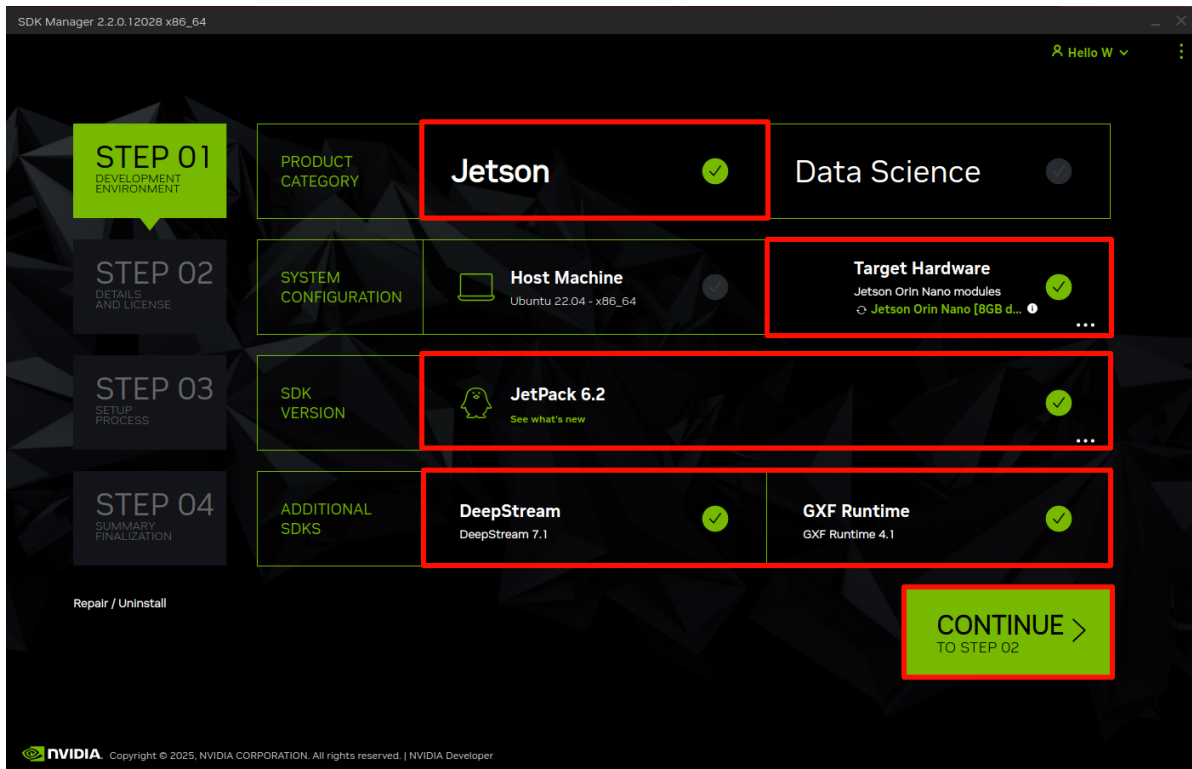
Libraries
CUDA: 12.6.68
cuDNN: 9.3.0.75
TensorRT: 10.3.0.30
VPI: 3.2.4
Vulkan: 1.3.204
OpenCV: 4.8.0 with CUDA: NO

Serial Number: [s]XX CLICK TO READ XXX]
Hardware
Model: NVIDIA Jetson Orin Nano Engineering Reference Developer Kit Super
699-level Part Number: 699-13767-0005-300 R.1
P-Number: p3767-0005
Module: NVIDIA Jetson Orin Nano (Developer kit)
SoC: tegra234
CUDA Arch BIN: 8.7
L4T: 36.4.3
Jetpack: 6.2

Hostname: yahboom
Interfaces
wlp1p1s0: 192.168.2.121
eno1: 192.168.2.56
l4tbr0: 192.168.55.1
docker0: 172.17.0.1
```

2. Install DeepStream

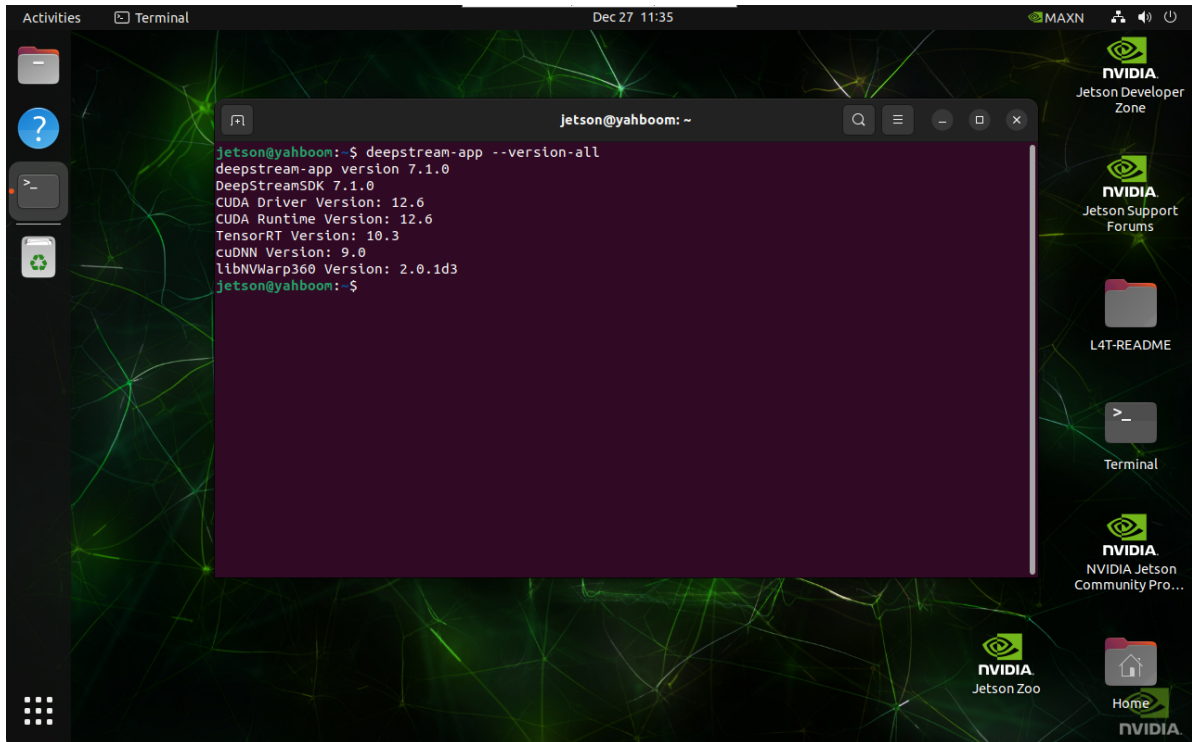
Refer to the tutorial in [Chapter 2 Motherboard Basics: 03. Install Jetson Component Environment]: Check the DeepStream 7.1 option



3. Verify installation

```
sudo apt install libgsttspserver-1.0-0
```

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



Run the example

```
cd /opt/nvidia/deepstream/deepstream-7.1/samples/configs/deepstream-app
```

```
deepstream-app -c source30_1080p_dec_infer-resnet_tiled_display_int8.txt
```

Note: It takes a long time to run this example. If it does not terminate automatically, wait for the program to run!

When the motherboard runs a program with a large load, the prompt "System throttled due to Over-current." will appear. This is normal!

Please use a power adapter with at least 45W power supply

