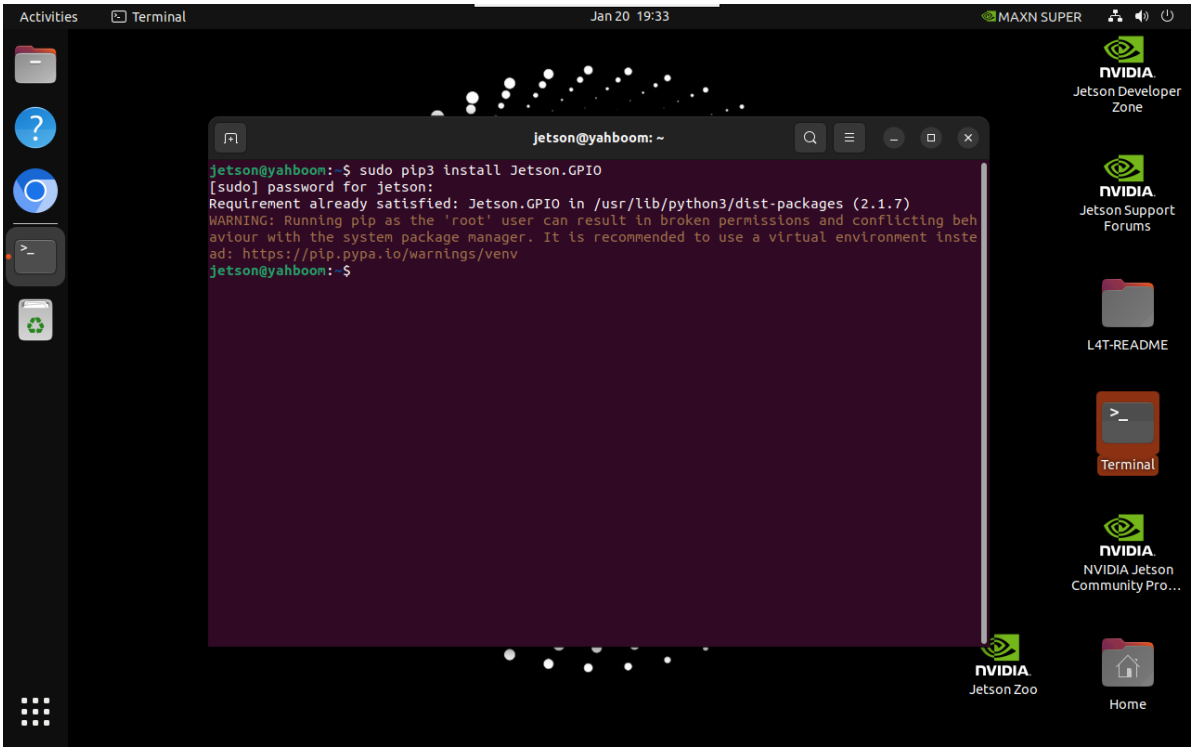
GPIO library installation

1. Install Jetson.GPIO library

The system installs Jetson.GPIO library by default, so you can skip this step.

1.1. Automatic installation

```
sudo pip3 install Jetson.GPIO
```



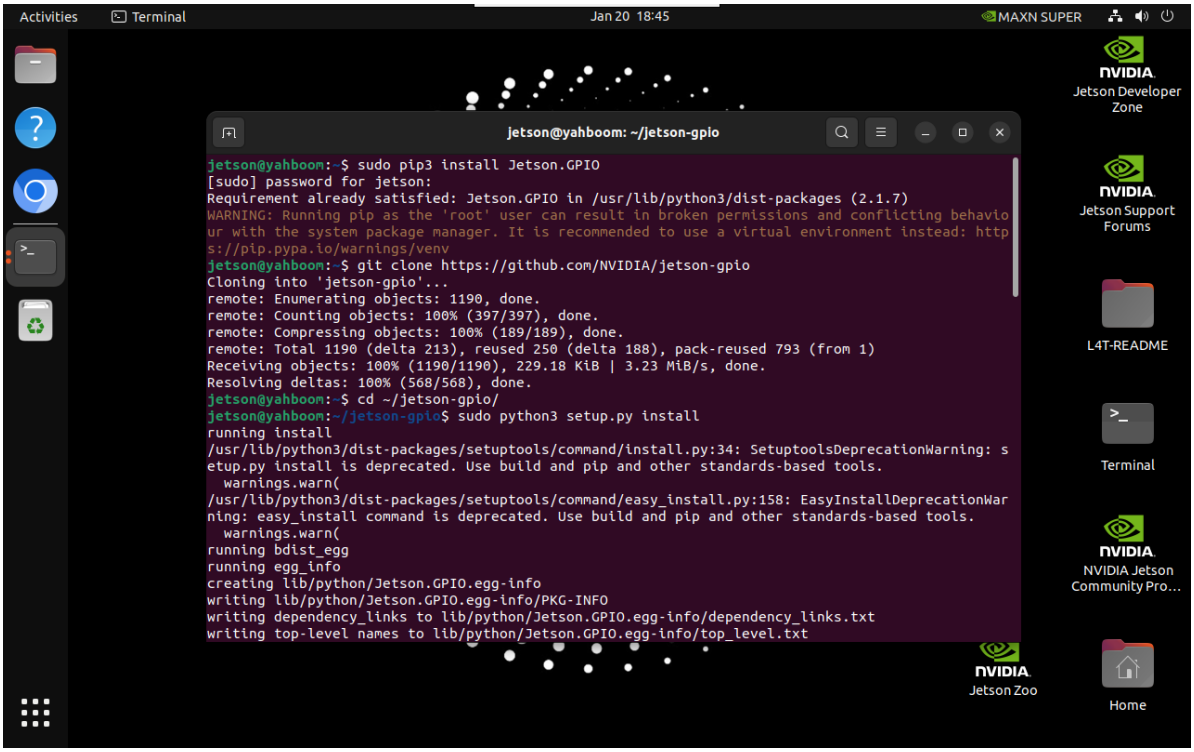
1.2. Manual installation

It is recommended to use the automatic installation method. Manual installation may not be the latest version.

```
git clone https://github.com/NVIDIA/jetson-gpio
```

```
cd ~/jetson-gpio/
```

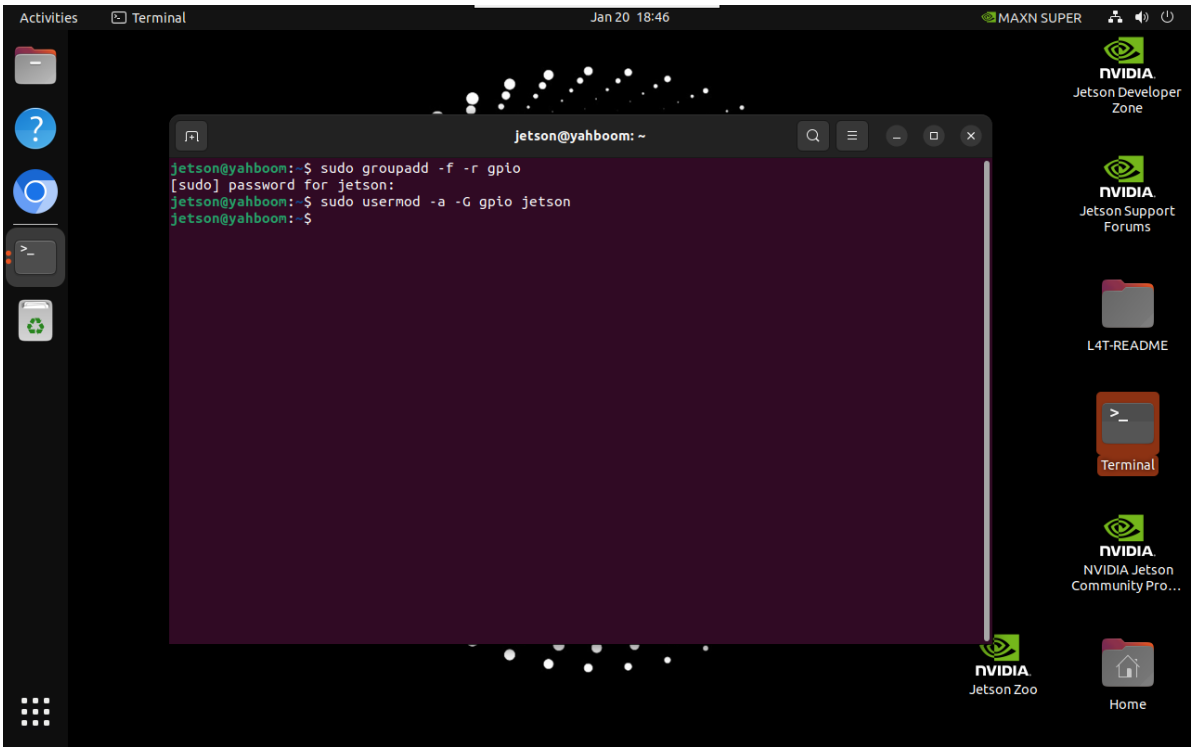
```
sudo python3 setup.py install
```



2. Set user permissions

Allow the current system user to access and use the Jetson.GPIO library: where `jetson` is the system user name

```
sudo groupadd -f -r gpio
sudo usermod -a -G gpio jetson
```



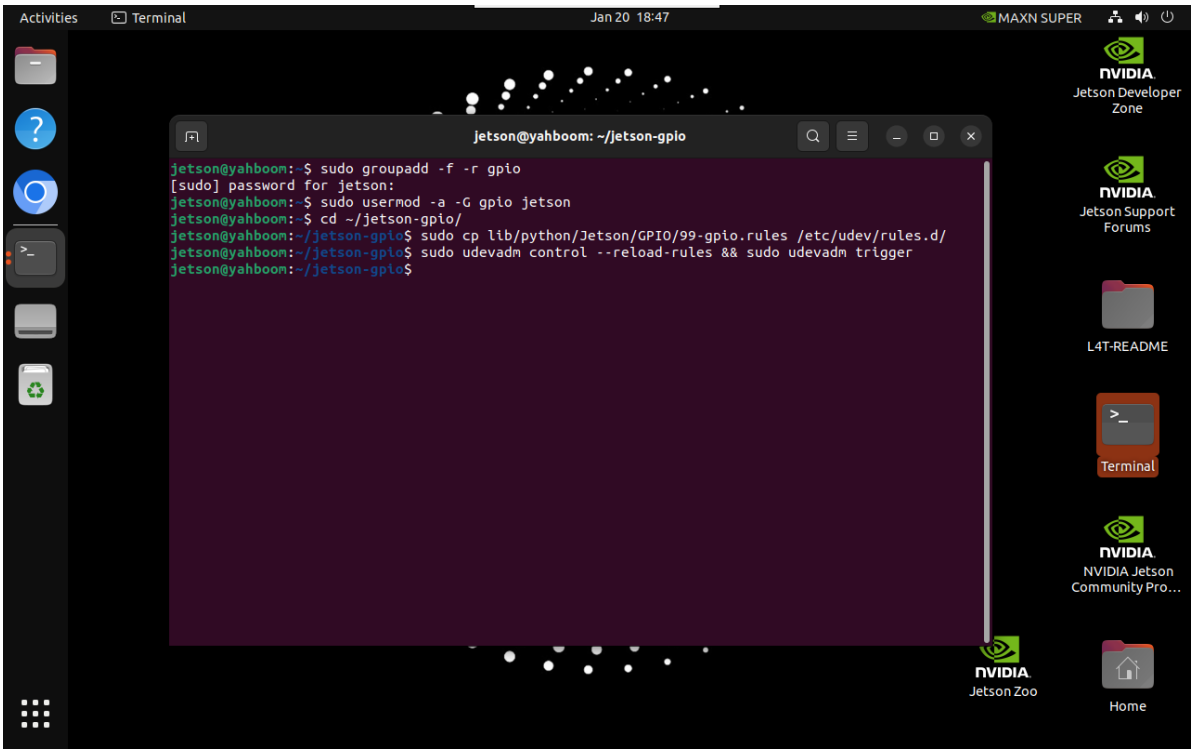
3. Custom rule file

3.1. Copy rule file

```
cd ~/jetson-gpio/
sudo cp lib/python/Jetson/GPIO/99-gpio.rules /etc/udev/rules.d/
```

3.2, Reload udev rules

```
sudo udevadm control --reload-rules && sudo udevadm trigger
```



4, Set the motherboard model

Currently Jetpack6.2 does not set the motherboard model in advance. You need to set the motherboard model in the terminal before controlling GPIO each time:

```
export JETSON_MODEL_NAME=JETSON_ORIN_NX
```

5, References

https://github.com/NVIDIA/jetson-gpio