2.11 Image classification algorithm

The `test_mobilenetv1. py` program has been installed on the development board to test the functionality of the MobileNet v1 image classification algorithm. The program reads static images from `zebra_cls. jpg` as input to the model and outputs the classification result `CLS id: 340 Confidence: 0.991851` on the command line terminal.

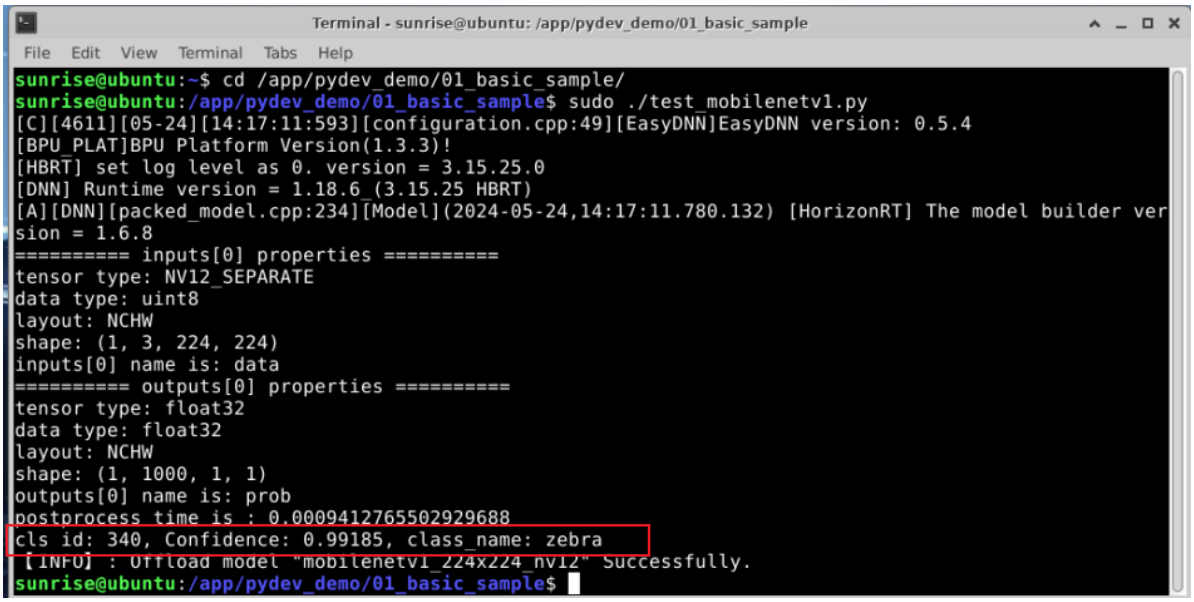
1. Operation mode

Execute the program `test_mobilenetv1. py`

Program path:/app/pydev_demo/01.basic_sample/

```
sunrise@ubuntu:~$ cd /app/pydev_demo/01_basic_sample/
sunrise@ubuntu:/app/pydev_demo/01_basic_sample$ sudo ./test_mobilenetv1.py
```

2. Result



Output the prediction results, ID, and confidence of the image classification algorithm.

`Zebra_cls.jpg` is an image of a zebra. According to the classification of the ImageNet dataset, the returned result ID is 340 and the confidence level is 0.991851.

```
========== Classification result ==========
cls id: 340 Confidence: 0.991851
```