

Four types of detection(traffic)

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Four types of detection are the case demonstrations that come with DeepStream: detecting and counting people, cars, road signs, and bicycles in the picture.

The tutorial only provides basic demonstrations, and other applications require users to develop them themselves

1. Video detection

Enter the folder where the case is located:

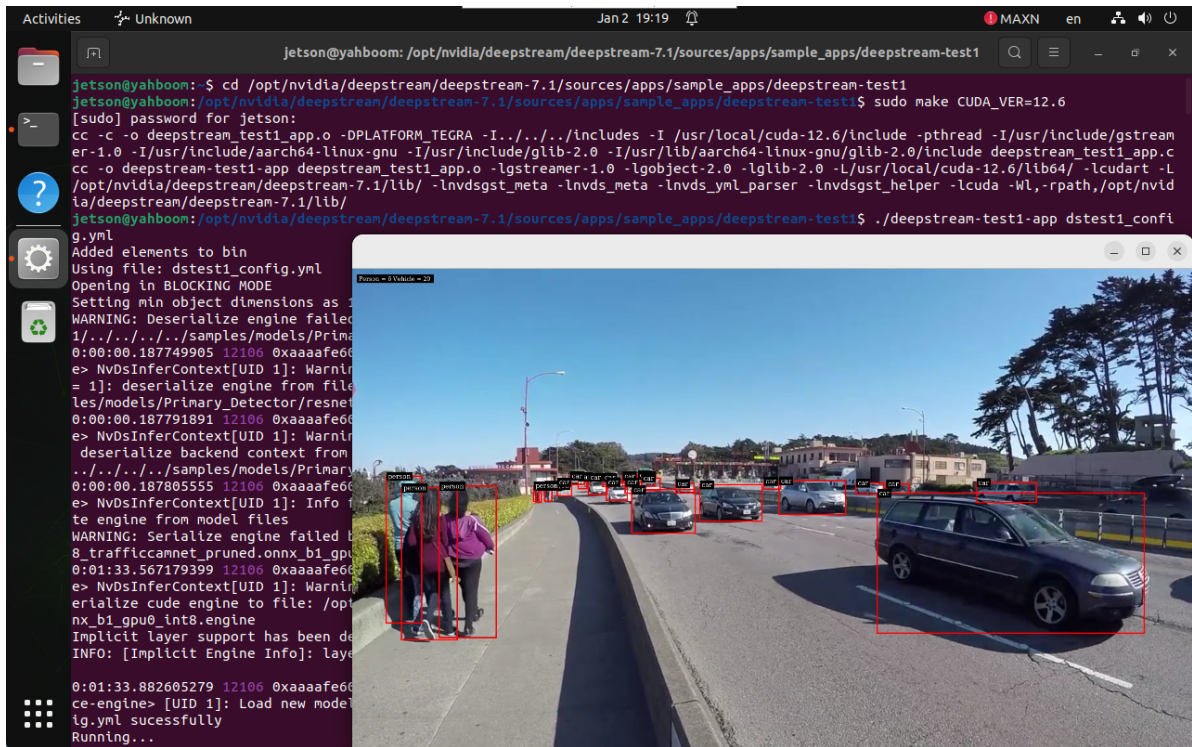
```
cd /opt/nvidia/deepstream/deepstream-7.1/sources/apps/sample_apps/deepstream-test1
```

Compile source code: refer to the README in the same folder

```
sudo make CUDA_VER=12.6 # Factory image compiled, no user compilation required
```

Run case: Refer to dctest1_config.yml in the same folder

```
./deepstream-test1-app dctest1_config.yml  
or  
./deepstream-test1-app ../../../../samples/streams/sample_720p.h264
```



Configuration Files: dctest1_config.yml

```
#####
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#####

source:
  location: ../../../../samples/streams/sample_720p.h264

streammux:
  batch-size: 1
  batched-push-timeout: 40000
  width: 1920
  height: 1080

# Inference using nvinfer:
primary-gie:
  plugin-type: 0
  config-file-path: dctest1_pgie_config.yml

## Inference using nvinferserver:
#primary-gie:
#  plugin-type: 1
#  config-file-path: dctest1_pgie_nvinferserver_config.txt
```

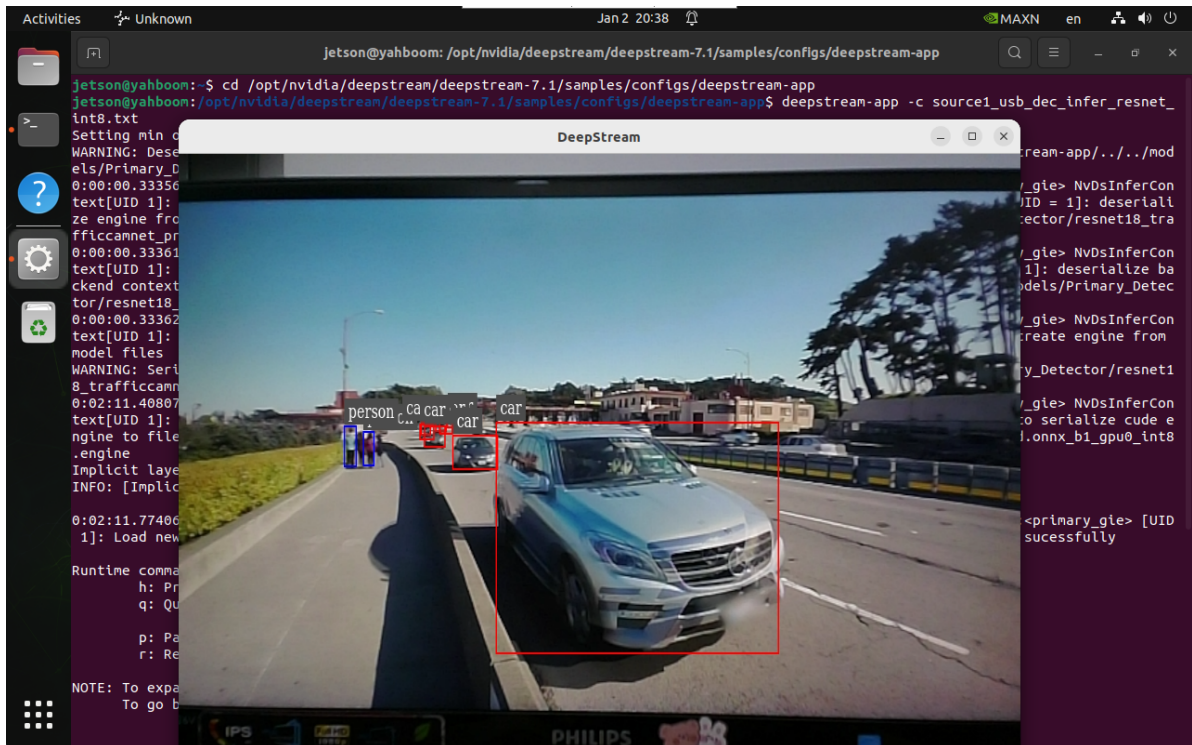
2. Real-time detection

If there are multiple cameras, modify the .txt configuration file yourself: The following cases are the results when the motherboard is connected to only one camera.

2.1. USB camera

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

```
deepstream-app -c source1_usb_dec_infer_resnet_int8.txt
```



2.2 CSI Camera

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

```
deepstream-app -c source1_csi_dec_infer_resnet_int8.txt
```

