TensorRT

# Reference

<https://github.com/AlexeyAB/darknet>

<https://github.com/jkjung-avt/tensorrt_demos>

<https://github.com/wang-xinyu/tensorrtx>

# Environment Version

Ubuntu : 18.04.5

Python : 3.6.9

GRAPHICS CARD : RTX3090

NVIDIA DRIVER : 455.32.00

CUDA : 11.1.1

cuDNN : 8.0.5.39-1

Pytorch : 1.7.1

TensorFlow : 2.4.0

JetPack : 4.4

TensorRT : 7.1.3

# Git Clone

<https://github.com/jkjung-avt/tensorrt_demos>

# Convert YOLOv4 To TensorRT

export PATH=/usr/local/cuda-10.2/bin${PATH:+:${PATH}}

sudo pip3 install protobuf

<https://github.com/jkjung-avt/tensorrt_demos#demo-5-yolov4>

* Using INT8 and DLA core

<https://github.com/jkjung-avt/tensorrt_demos#demo-6-using-int8-and-dla-core>

# Convert Common Model To TensorRT

need ctypes to convert

<https://github.com/wang-xinyu/tensorrtx>

# DeepStream Reference

<https://github.com/AlexeyAB/darknet#yolo-v4-in-other-frameworks>

# Issude Reference

onnx error

sudo apt-get install protobuf-compiler libprotoc-dev

<https://forums.developer.nvidia.com/t/tensorrt-backend-for-onnx-on-jetson-nano/74980/26>

cannot found -lnvinfer

<https://github.com/wang-xinyu/tensorrtx/issues/272>

/usr/bin/ld: cannot found

<https://blog.csdn.net/ZXF_1991/article/details/106020885>

opencv install (If it's still error, trying to install pip version)

<https://linuxize.com/post/how-to-install-opencv-on-ubuntu-18-04/>