
TensorRT Models Deploy from ONNX



Install Depends

see INSTALL.md

Build from Docker

```
1 docker build -t tensorrt_inference:0.1.0_rc .
```

How to Use

- Build tensorrt_inference project:

```
1 git clone https://github.com/linghu8812/tensorrt_inference.git
2 cd tensorrt_inference/project
3 mkdir build && cd build
4 cmake ..
5 make -j
```

after these steps, the executable program `tensorrt_inference` and all support model shared libraries have been built.

- Run tensorrt_inference

```
1 ./tensorrt_inference
```

it will show:

```
1 Please design model arch, config file and folder name!
```

- Inference with models, take **yolov5** model as example, put `yolov5s.onnx` model into `weights` folder:

```
1 cd ../../bin/
2 ./tensorrt_inference yolov5 ../configs/yolov5/config.yaml ../samples/
  detection_segmentation
```

Use one model library example can reference here example

Supported Models

download transfered ONNX models, and put them into folder `weights`: <https://pan.baidu.com/s/1F>



f_SA9Q66DUnZjSipPa74Q, code: [opkp](#)

models	framework	instruction
lenet	PyTorch	An example from model training to TensorRT model deploy
alexnet	MXNet Gluon	MXNet Gluon example
arcface	MXNet Symbol	MXNet Symbol and face recognition example
CenterFace	ONNX	rewrite ONNX model and face detection example
efficientnet	Keras	Keras to ONNX example
face_alignment	MXNet Symbol	MXNet Symbol and face key points detection example
fast-reid	PyTorch	PyTorch and pedestrian reid example

models	framework	instruction
FCN	GluonCV	MXNet GluonCV semantic segmentation example
gender-age	MXNet Symbol	MXNet Symbol and face gender and age recognize example
ghostnet	PyTorch	PyTorch example
MiniFASNet	PyTorch	PyTorch face anti spoofing example
mmpose	PyTorch	PyTorch person key points detect example
nanodet	PyTorch	PyTorch lightweight anchor-free object detection example
RetinaFace	MXNet Symbol	MXNet Symbol and face detection example
ScaledYOLOv4	PyTorch	YOLOv4 large with PyTorch implementation
scrfd	PyTorch	PyTorch scrfd face detection example
seresnext	PyTorch	PyTorch example
Swin-Transformer	timm	timm image classification example
yolor	PyTorch	PyTorch and object detection example
Yolov4	darknet	darknet and object detection example
yolov5	PyTorch	PyTorch and object detection example
YOLOv6	PyTorch	PyTorch and object detection example
yolov7	PyTorch	PyTorch and object detection example

models	framework	instruction
yolov8	ultralytics	ultralytics object detection example

Discussion Groups

- **QQ group:** 588966055