Tengine Convert Tool User Manual

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Change Logs

Date	Version	Description	Author
2020-12-04	1.0	Initial	Qi Tang
2021-04-02	1.1	Update chapter 2.1 instructions of convert tool	Qi Tang

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1 Brief

Tengine Convert Tool is a neural network model convert tool development by Tengine team that can run on Ubuntu 18.04.

Support the following functions:

• Convert the Float32 model of Caffe / TensorFlow / MXNet / ONNX / TFLite / Darknet to Tengine's Float32 model(file extension is .tmfile);

2 Instruction

2.1 The parameter description of this tool:

Params	Description	
-h	Help show	
-f	Framework category, supported frameworks are: Caffe / TensorFlow / MXNet / ONNX / TFLite / Darknet	
-p	The network file of input model(file path must be included)	
-m	The params file of input model(file path must be included)	
-0	The file name of output model(need to include output file path)	

2.2 How to use this tool

Take the mobilenet v1 model based on the Caffe framework as an example to illustrate the usage of various parameters. The input model file is mobilenet.prototxt and mobilenet.caffemodel.

2.2.1 Convert the Float32 model

./convert model -f caffe -m mobilenet.caffemodel -p mobilenet prototxt.prototxt -o mobilenet out.tmfile

the transformation model framework has only model files and no model parameter files, only -f, -m, -o parameter input is required.

2.2.2 The description of output file

After the model conversion tool is converted, it generates a file type with .tmfile extension.

3 Technical support

Any other questions, please contact: support-tengine@openailab.com