

Tengine Convert Tool

User Manual

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Change Logs

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| --- | --- | --- | --- |
| Date | Version | Description | Author |
| 2020-12-04 | 1.0 | first edition | Qi Tang |

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# Brief

Tengine Convert Tool is an x86 Linux model conversion tool development by Tengine team that can run on Ubuntu 18.04.

Mainly supports the following functions:

* FP32 conversion function: convert Float32 model of Caffe/TensorFlow/Mxnet/ONNX/TFLite/Darknet into Float32 model of Tengine (file extension is,tmfile);

# Instruction

## Explanation of conversion tool command parameters:

|  |  |
| --- | --- |
| Params | Description |
| -h | Tool display description |
| -q | Tool category: CONVERT (conversion function), OPERATOR (display the list of framework support operators) |
| -f | Framework category, supported by Caffe/TensorFlow/Mxnet/ONNX/TFLite/Darknet |
| -p | Model parameter file input (including file path) |
| -m | Model structure file input (including file path) |
| -o | Output file name (including output file path) |

## How to use this tool

Taking MobileNetv1 model based on Caffe framework as an example, the usage modes of various parameters are explained respectively. The input model files are mobilenet.prototxt and mobilenet.caffemodel.

### Convert the Float32 model



If the transformation model framework only has model structure file and no model parameter files, only -q, -f, -m and -o parameters are required.

### The description of output file

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

# Technical support

Any other questions, please contact：[support-tengine@openailab.com](file:///C:\Users\Lenovo\AppData\Roaming\Microsoft\Word\support-tengine@openailab.com)