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👤 **martinwicke** committed with **tensorflower-gardener** Merge changes from github.   …   Latest commit bc456e3 2 days ago

📁 ..

📄 BUILD	Merge changes from github.	2 days ago
📄 README.md	Merge changes from github.	2 months ago
📄 benchmark_model.cc	Merge changes from github.	2 days ago
📄 benchmark_model.h	Add option for warmup runs in benchmark_model, and also run benchmark…	a month ago
📄 benchmark_model_main.cc	Update copyright for 3p/tf/tools.	10 months ago
📄 benchmark_model_test.cc	Add option for warmup runs in benchmark_model, and also run benchmark…	a month ago

📖 **README.md**

TensorFlow Model Benchmark Tool

Description

A simple C++ binary to benchmark a compute graph and its individual operators, both on desktop machines and on Android.

To build/install/run

On Android:

(1) build for your specific platform, e.g.:

```
$bazel build -c opt \
  --crosstool_top=//external:android/crosstool \
  --cpu=armeabi-v7a \
  --host_crosstool_top=@bazel_tools//tools/cpp:toolchain \
  tensorflow/tools/benchmark:benchmark_model
```

(2) Connect your phone. Push the binary to your phone with adb push (make the directory if required):

```
$adb push bazel-bin/tensorflow/tools/benchmark/benchmark_model /data/local/tmp
```

(3) Push the compute graph that you need to test. For example: adb push tensorflow_inception_graph.pb /data/local/tmp

(4) Run the benchmark. For example:

```
$adb shell "/data/local/tmp/benchmark_model \
  --graph=/data/local/tmp/tensorflow_inception_graph.pb \
  --input_layer="input:0" \
  --input_layer_shape="1,224,224,3" \
  --input_layer_type="float" \
  --output_layer="output:0"
```

On desktop:

(1) build the binary

```
$bazel build --config opt tensorflow/tools/benchmark:benchmark_model
```

(2) Run on your compute graph, similar to the Android case but without the need of adb shell. For example:

```
$bazel-bin/tensorflow/tools/benchmark/benchmark_model \
  --graph=tensorflow_inception_graph.pb \
  --input_layer="input:0" \
  --input_layer_shape="1,224,224,3" \
  --input_layer_type="float" \
  --output_layer="output:0"
```

The Inception graph used as an example here may be downloaded from
https://storage.googleapis.com/download.tensorflow.org/models/inception5h.zip

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