

tf.test.Benchmark

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Class **Benchmark**

Defined in [tensorflow/python/platform/benchmark.py](#).

Abstract class that provides helpers for TensorFlow benchmarks.

Methods

is_abstract

```
@classmethod  
is_abstract(cls)
```

report_benchmark

```
report_benchmark(  
    iters=None,  
    cpu_time=None,  
    wall_time=None,  
    throughput=None,  
    extras=None,  
    name=None  
)
```

Report a benchmark.

Args:

- **iters**: (optional) How many iterations were run
- **cpu_time**: (optional) median or mean cpu time in seconds.
- **wall_time**: (optional) median or mean wall time in seconds.
- **throughput**: (optional) Throughput (in MB/s)
- **extras**: (optional) Dict mapping string keys to additional benchmark info. Values may be either floats or values that are convertible to strings.
- **name**: (optional) Override the BenchmarkEntry name with **name**. Otherwise it is inferred from the top-level method name.

run_op_benchmark

```
run_op_benchmark(  
    sess,  
    op_or_tensor,  
    feed_dict=None,  
    burn_iters=2,  
    min_iters=10,  
    store_trace=False,  
    store_memory_usage=True,  
    name=None,  
    extras=None,  
    mbs=0  
)
```

Run an op or tensor in the given session. Report the results.

Args:

- `sess` : `Session` object to use for timing.
- `op_or_tensor` : `Operation` or `Tensor` to benchmark.
- `feed_dict` : A `dict` of values to feed for each op iteration (see the `feed_dict` parameter of `Session.run`).
- `burn_iters` : Number of burn-in iterations to run.
- `min_iters` : Minimum number of iterations to use for timing.
- `store_trace` : Boolean, whether to run an extra untimed iteration and store the trace of iteration in the benchmark report. The trace will be stored as a string in Google Chrome trace format in the extras field `"full_trace_chrome_format"`.
- `store_memory_usage` : Boolean, whether to run an extra untimed iteration, calculate memory usage, and store that in extras fields.
- `name` : (optional) Override the BenchmarkEntry name with `name` . Otherwise it is inferred from the top-level method name.
- `extras` : (optional) Dict mapping string keys to additional benchmark info. Values may be either floats or values that are convertible to strings.
- `mbs` : (optional) The number of megabytes moved by this op, used to calculate the ops throughput.

Returns:

A `dict` containing the key-value pairs that were passed to `report_benchmark` .

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