#### TopogrElow

TensorFlow API r1.4

## tf.train.ProfilerHook

```
Contents
Class ProfilerHook
Methods
__init__
after_create_session
```

## Class ProfilerHook

Inherits From: SessionRunHook

Defined in tensorflow/python/training/basic\_session\_run\_hooks.py.

Captures CPU/GPU profiling information every N steps or seconds.

This produces files called "timeline-.json", which are in Chrome Trace format.

For more information see: https://github.com/catapult-project/catapult/blob/master/tracing/README.md

# Methods

#### \_\_init\_\_

```
__init__(
    save_steps=None,
    save_secs=None,
    output_dir='',
    show_dataflow=True,
    show_memory=False
)
```

Initializes a hook that takes periodic profiling snapshots.

**options.run\_metadata** argument of **tf.Session.Run** is used to collect metadata about execution. This hook sets the metadata and dumps it in Chrome Trace format.

# Args:

- save\_steps: int, save profile traces every N steps. Exactly one of save\_secs and save\_steps should be set.
- save\_secs: int or float, save profile traces every N seconds.
- output\_dir: string, the directory to save the profile traces to. Defaults to the current directory.
- show\_dataflow: bool, if True, add flow events to the trace connecting producers and consumers of tensors.
- show\_memory: bool, if True, add object snapshot events to the trace showing the sizes and lifetimes of tensors.

## after\_create\_session

```
after_create_session(
    session,
    coord
)
```

Called when new TensorFlow session is created.

This is called to signal the hooks that a new session has been created. This has two essential differences with the situation in which **begin** is called:

- When this is called, the graph is finalized and ops can no longer be added to the graph.
- This method will also be called as a result of recovering a wrapped session, not only at the beginning of the overall session.

## Args:

- session: A TensorFlow Session that has been created.
- coord: A Coordinator object which keeps track of all threads.

## after\_run

```
after_run(
    run_context,
    run_values
)
```

#### before\_run

```
before_run(run_context)
```

## begin

```
begin()
```

#### end

```
end(session)
```

Called at the end of session.

The session argument can be used in case the hook wants to run final ops, such as saving a last checkpoint.

If session.run() raises exception other than OutOfRangeError or StopIteration then end() is not called. Note the difference between end() and after\_run() behavior when session.run() raises OutOfRangeError or StopIteration. In that case end() is called but after\_run() is not called.

# Args:

• session: A TensorFlow Session that will be soon closed.

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