TencorFlow

TensorFlow API r1.4

tf.train.MonitoredSession

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Class MonitoredSession

Defined in tensorflow/python/training/monitored_session.py.

See the guides: Threading and Queues > Queue usage overview, Training > Distributed execution

Session-like object that handles initialization, recovery and hooks.

Example usage:

Initialization: At creation time the monitored session does following things in given order:

- calls hook.begin() for each given hook
- finalizes the graph via scaffold.finalize()
- · create session
- initializes the model via initialization ops provided by Scaffold
- · restores variables if a checkpoint exists
- launches queue runners
- calls hook.after_create_session()

Run: When **run()** is called, the monitored session does following things:

- calls hook.before_run()
- calls TensorFlow session.run() with merged fetches and feed_dict
- calls hook.after_run()
- returns result of session.run() asked by user
- if **AbortedError** or **UnavailableError** occurs, it recovers or reinitializes the session before executing the run() call again

Exit: At the close(), the monitored session does following things in order:

- calls hook.end()
- · closes the queue runners and the session
- suppresses **OutOfRange** error which indicates that all inputs have been processed if the monitored_session is used as a context

How to set tf.Session arguments:

• In most cases you can set session arguments as follows:

```
MonitoredSession(
session_creator=ChiefSessionCreator(master=..., config=...))
```

• In distributed setting for a non-chief worker, you can use following:

```
MonitoredSession(
  session_creator=WorkerSessionCreator(master=..., config=...))
```

See MonitoredTrainingSession for an example usage based on chief or worker.



Note: This is not a tf. Session. For example, it cannot do following:

- · it cannot be set as default session.
- it cannot be sent to saver.save.
- it cannot be sent to tf.train.start_queue_runners.

Args:

- session_creator: A factory object to create session. Typically a ChiefSessionCreator which is the default one.
- hooks: An iterable of `SessionRunHook' objects.

Returns:

A MonitoredSession object.

Properties

graph

The graph that was launched in this session.

Methods

__init__

```
__init__(
    session_creator=None,
    hooks=None,
    stop_grace_period_secs=120
)
```

```
__enter__
```

```
__enter__()
```

__exit__

```
__exit__(
    exception_type,
    exception_value,
    traceback
)
```

close

```
close()
```

run

```
run(
    fetches,
    feed_dict=None,
    options=None,
    run_metadata=None
)
```

Run ops in the monitored session.

This method is completely compatible with the tf.Session.run() method.

Args:

- fetches: Same as tf.Session.run().
- feed_dict: Same as tf.Session.run().
- options: Same as tf.Session.run().
- run_metadata: Same as tf.Session.run().

Returns:

Same as tf.Session.run().

should_stop

```
should_stop()
```

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