TensorFlow API r1.4

tf.train.init_from_checkpoint

```
init_from_checkpoint(
    ckpt_dir_or_file,
    assignment_map
)
```

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

Initializes current variables with tensors loaded from given checkpoint.



Note: This overrides default initialization ops of specified variables and redefines dtype.

Assignment map supports following syntax:

- 'checkpoint_scope_name/': 'scope_name/' will load all variables in current scope_name from checkpoint_scope_name with matching tensor names.
- 'checkpoint_scope_name/some_other_variable': 'scope_name/variable_name' will initialize scope_name/variable_name variable from checkpoint_scope_name/some_other_variable.
- 'scope_variable_name': variable will initialize given tf.Variable object with tensor 'scope_variable_name' from the checkpoint.
- 'scope_variable_name': list(variable) will initialize list of partitioned variables with tensor 'scope_variable_name' from the checkpoint.
- '/': 'scope_name/' will load all variables in current scope_name from checkpoint's root (e.g. no scope).

Supports loading into partitioned variables, which are represented as '<variable>/part_<part #>' .

Example:

```
# Say, '/tmp/model.ckpt' has the following tensors:
# -- name='old_scope_1/var1', shape=[20, 2]
# -- name='old_scope_1/var2', shape=[50, 4]
# -- name='old_scope_2/var3', shape=[100, 100]
# Create new model's variables
with tf.variable_scope('new_scope_1'):
  var1 = tf.get_variable('var1', shape=[20, 2],
                         initializer=tf.zeros_initializer())
with tf.variable_scope('new_scope_2'):
  var2 = tf.get_variable('var2', shape=[50, 4],
                         initializer=tf.zeros_initializer())
  # Partition into 5 variables along the first axis.
  var3 = tf.get_variable(name='var3', shape=[100, 100],
                         initializer=tf.zeros_initializer(),
                         partitioner=lambda shape, dtype: [5, 1])
# Initialize all variables in `new_scope_1` from `old_scope_1`.
init_from_checkpoint('/tmp/model.ckpt', {'old_scope_1/', 'new_scope_1'})
# Use names to specify which variables to initialize from checkpoint.
init_from_checkpoint('/tmp/model.ckpt',
                     {'old_scope_1/var1': 'new_scope_1/var1',
                      'old_scope_1/var2': 'new_scope_2/var2'})
# Or use tf. Variable objects to identify what to initialize.
init_from_checkpoint('/tmp/model.ckpt',
                     {'old_scope_1/var1': var1,
                      'old_scope_1/var2': var2})
# Initialize partitioned variables using variable's name
init_from_checkpoint('/tmp/model.ckpt',
                     {'old_scope_2/var3': 'new_scope_2/var3'})
# Or specify the list of tf.Variable objects.
init_from_checkpoint('/tmp/model.ckpt',
                     {'old_scope_2/var3': var3._get_variable_list()})
```

Args:

- ckpt_dir_or_file: Directory with checkpoints file or path to checkpoint.
- assignment_map: Dict, where keys are names of the variables in the checkpoint and values are current variables or names of current variables (in default graph).

Raises:

- tf.errors.OpError: If missing checkpoints or tensors in checkpoints.
- ValueError: If missing variables in current graph.

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