tf.contrib.framework.init_from_checkpoint

```
init_from_checkpoint(
    checkpoint_dir,
    assignment_map
)
```

Defined in `tensorflow/contrib/framework/python/framework/checkpoint_utils.py`.

See the guide: Framework (contrib) > Checkpoint utilities

Using assignment map initializes current variables with loaded tensors.

★ **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 variable 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 variable from the checkpoint.
- `'scope_variable_name': list(variable)` - will initialize list of partitioned variables with variable 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:

```
# Create variables.
with tf.variable_scope('test'):
  m = tf.get_variable('my_var')
with tf.variable_scope('test2'):
  var2 = tf.get_variable('my_var')
var3 = tf.get_variable(name="my1", shape=[100, 100],
                       partitioner=lambda shape, dtype: [5, 1])
...
# Specify which variables to initialize from checkpoint.
init_from_checkpoint(checkpoint_dir, {
  'some_var': 'test/my_var',
  'some_scope/': 'test2/'})
...
# Or use `Variable` objects to identify what to initialize.
init_from_checkpoint(checkpoint_dir, {
  'some_scope/var2': var2,
})
# Initialize partitioned variables
init_from_checkpoint(checkpoint_dir, {
  'some_var_from_ckpt': 'part_var',
})
# Or specifying the list of `Variable` objects.
init_from_checkpoint(checkpoint_dir, {
  'some_var_from_ckpt': var3._get_variable_list(),
})
...
# Initialize variables as usual.
session.run(tf.get_all_variables())
```

Args:

- `checkpoint_dir`: 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.

Last updated November 2, 2017.