tf.contrib.graph_editor.Transformer

Class `Transformer`

Defined in `tensorflow/contrib/graph_editor/transform.py`.

See the guide: Graph Editor (contrib) > Module: transform

Transform a subgraph into another one.

By default, the constructor create a transform which copy a subgraph and replaces inputs with placeholders. This behavior can be modified by changing the handlers.

Methods

`__init__`

```
__init__()
```

Transformer constructor.

The following members can be modified: transform_op_handler: handle the transformation of a `tf.Operation`. This handler defaults to a simple copy. assign_collections_handler: handle the assignment of collections. This handler defaults to assigning new collections created under the given name-scope. transform_external_input_handler: handle the transform of the inputs to the given subgraph. This handler defaults to creating placeholders instead of the ops just before the input tensors of the subgraph. transform_external_hidden_input_handler: handle the transform of the hidden inputs of the subgraph, that is, the inputs which are not listed in sgv.inputs. This handler defaults to a transform which keep the same input if the source and destination graphs are the same, otherwise use placeholders. transform_original_op_handler: handle the transform of original_op. This handler defaults to transforming original_op only if they are in the subgraph, otherwise they are ignored.

`__call__`

```
__call__(
    sgv,
    dst_graph,
    dst_scope,
    src_scope='',
    reuse_dst_scope=False
)
```

Execute the transformation.

Args:

- `sgv`: the source subgraph-view.
- `dst_graph`: the destination graph.
- `dst_scope`: the destination scope.
- `src_scope`: the source scope, which specify the path from which the relative path of the transformed nodes are computed. For instance, if src_scope is a/ and dst_scoped is b/, then the node a/x/y will have a relative path of x/y and will be transformed into b/x/y.
- `reuse_dst_scope`: if True the dst_scope is re-used if it already exists. Otherwise, the scope is given a unique name based on the one given by appending an underscore followed by a digit (default).

Returns:

A tuple `(sgv, info)` where: `sgv` is the transformed subgraph view; `info` is an instance of TransformerInfo containing information about the transform, including mapping between original and transformed tensors and operations.

Raises:

- `ValueError`: if the arguments are invalid.

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