

tf.contrib.tpu.while_loop

```
while_loop(  
    condition,  
    body,  
    inputs=None,  
    infeed_queue=None,  
    name=None  
)
```

Defined in [tensorflow/contrib/tpu/python/tpu/training_loop.py](#).

Builds a training loop for TPUs.

The set of loop-carried tensors corresponds to `inputs`. Both `condition` and `body` take the current value of the loop-carried tensors. 'body' additionally takes a tuple of infeed from `infeed_queue` if `infeed_queue` is not None. `condition` must return a single boolean value that determines whether iteration continues. `body` must return an updated list of values for the loop-carried tensors.

Args:

- `condition`: a Python function that builds the loop condition.
- `body`: a Python function that builds the loop body.
- `inputs`: a list of initial values passed into the training loop, or None (equivalent to an empty list).
- `infeed_queue`: if not None, the infeed queue from which to append a tuple of arguments as inputs to condition.
- `name`: an optional name for the loop.

Returns:

The final values of the loop-carried tensors.

Raises:

- `TypeError`: if body or condition has the wrong signature.

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