

tf.tuple

```
tuple(  
    tensors,  
    name=None,  
    control_inputs=None  
)
```

Defined in [tensorflow/python/ops/control_flow_ops.py](#).

See the guide: [Control Flow > Control Flow Operations](#)

Group tensors together.

This creates a tuple of tensors with the same values as the `tensors` argument, except that the value of each tensor is only returned after the values of all tensors have been computed.

`control_inputs` contains additional ops that have to finish before this op finishes, but whose outputs are not returned.

This can be used as a "join" mechanism for parallel computations: all the argument tensors can be computed in parallel, but the values of any tensor returned by `tuple` are only available after all the parallel computations are done.

See also [group](#) and [control_dependencies](#).

Args:

- `tensors`: A list of `Tensor`s or `IndexedSlices`, some entries can be `None`.
- `name`: (optional) A name to use as a `name_scope` for the operation.
- `control_inputs`: List of additional ops to finish before returning.

Returns:

Same as `tensors`.

Raises:

- `ValueError`: If `tensors` does not contain any `Tensor` or `IndexedSlices`.
- `TypeError`: If `control_inputs` is not a list of `Operation` or `Tensor` objects.

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