tf.global_norm

```
global_norm(
    t_list,
    name=None
)
```

Defined in `tensorflow/python/ops/clip_ops.py`.

See the guide: Training > Gradient Clipping

Computes the global norm of multiple tensors.

Given a tuple or list of tensors `t_list`, this operation returns the global norm of the elements in all tensors in `t_list`. The global norm is computed as:

`global_norm = sqrt(sum([l2norm(t)**2 for t in t_list]))`

Any entries in `t_list` that are of type None are ignored.

Args:

- `t_list`: A tuple or list of mixed `Tensors`, `IndexedSlices`, or None.
- `name`: A name for the operation (optional).

Returns:

A 0-D (scalar) `Tensor` of type `float`.

Raises:

- `TypeError`: If `t_list` is not a sequence.

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