

## tf.contrib.nccl.all\_prod

```
all_prod(tensors)
```

Defined in [tensorflow/contrib/nccl/python/ops/nccl\\_ops.py](#).

Returns a list of tensors with the all-reduce product across `tensors`.

The computation is done with an all-reduce operation, so if only some of the returned tensors are evaluated then the computation will hang.

### Args:

- `tensors`: The input tensors across which to multiply; must be assigned to GPU devices.

### Returns:

List of tensors, each with the product of the input tensors, where tensor `i` has the same device as `tensors[i]`.

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