

tf.contrib.kfac.fisher_blocks.KroneckerProductFB

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Class **KroneckerProductFB**

Inherits From: [FisherBlock](#)Defined in [tensorflow/contrib/kfac/python/ops/fisher_blocks.py](#).

A base class for FisherBlocks with separate input and output factors.

The Fisher block is approximated as a Kronecker product of the input and output factors.

Methods

`__init__`

```
__init__(layer_collection)
```

`full_fisher_block`

```
full_fisher_block()
```

Explicitly constructs the full Fisher block.

Used for testing purposes. (In general, the result may be very large.)

Returns:

The full Fisher block.

`instantiate_factors`

```
instantiate_factors(  
    grads_list,  
    damping  
)
```

Creates and registers the component factors of this Fisher block.

Args:

- `grads_list` : A list gradients (each a Tensor or tuple of Tensors) with respect to the tensors returned by `tensors_to_compute_grads()` that are to be used to estimate the block.
- `damping` : The damping factor (float or Tensor).

multiply

```
multiply(vector)
```

multiply_inverse

```
multiply_inverse(vector)
```

tensors_to_compute_grads

```
tensors_to_compute_grads()
```

Returns the Tensor(s) with respect to which this FisherBlock needs grads.

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