TancarFlow

TensorFlow API r1.4

tf.cumprod

```
cumprod(
    x,
    axis=0,
    exclusive=False,
    reverse=False,
    name=None
)
```

Defined in tensorflow/python/ops/math_ops.py.

See the guide: Math > Scan

Compute the cumulative product of the tensor x along axis.

By default, this op performs an inclusive cumprod, which means that the first element of the input is identical to the first element of the output:

```
tf.cumprod([a, b, c]) # [a, a * b, a * b * c]
```

By setting the exclusive kwarg to True, an exclusive cumprod is performed instead:

```
tf.cumprod([a, b, c], exclusive=True) # [1, a, a * b]
```

By setting the reverse kwarg to True, the cumprod is performed in the opposite direction:

```
tf.cumprod([a, b, c], reverse=True) # [a * b * c, b * c, c]
```

This is more efficient than using separate tf.reverse ops. The reverse and exclusive kwargs can also be combined:

```
tf.cumprod([a, b, c], exclusive=True, reverse=True) # [b * c, c, 1]
```

Args:

- x: A Tensor. Must be one of the following types: float32, float64, int64, int32, uint8, uint16, int16, int8, complex64, complex128, qint8, quint8, qint32, half.
- axis: A Tensor of type int32 (default: 0). Must be in the range [-rank(x), rank(x)).
- exclusive: If True, perform exclusive cumprod.
- reverse: A bool (default: False).
- name: A name for the operation (optional).

Returns:

A **Tensor** . Has the same type as \mathbf{x} .

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