

tf.segment_prod

```
segment_prod(
    data,
    segment_ids,
    name=None
)
```

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

See the guide: [Math > Segmentation](#)

Computes the product along segments of a tensor.

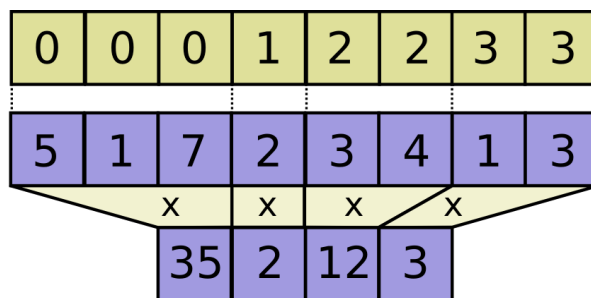
Read [the section on segmentation](#) for an explanation of segments.

Computes a tensor such that $output_i = \prod_j data_j$ where the product is over j such that `segment_ids[j] == i`.

If the product is empty for a given segment ID `i`, `output[i] = 1`.

segment_ids

data



Args:

- `data`: A **Tensor**. Must be one of the following types: `float32`, `float64`, `int64`, `int32`, `uint8`, `uint16`, `int16`, `int8`, `complex64`, `complex128`, `qint8`, `quint8`, `qint32`, `half`.
- `segment_ids`: A **Tensor**. Must be one of the following types: `int32`, `int64`. A 1-D tensor whose rank is equal to the rank of `data`'s first dimension. Values should be sorted and can be repeated.
- `name`: A name for the operation (optional).

Returns:

A **Tensor**. Has the same type as `data`. Has same shape as data, except for dimension 0 which has size `k`, the number of segments.

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