

## tf.unsorted\_segment\_max

```
unsorted_segment_max(
    data,
    segment_ids,
    num_segments,
    name=None
)
```

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

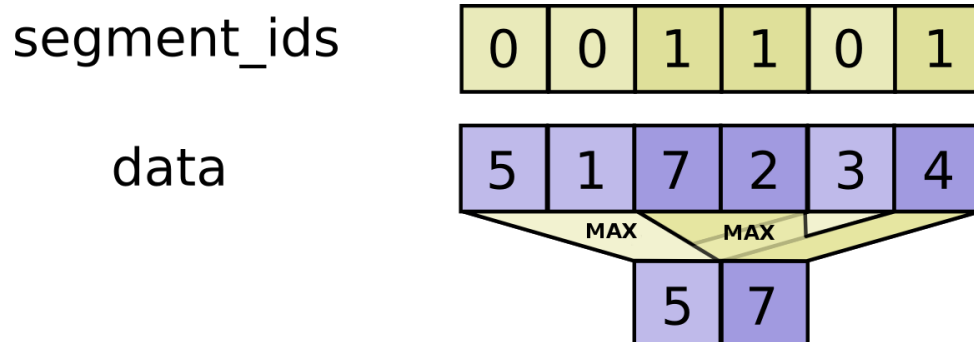
Computes the Max along segments of a tensor.

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

This operator is similar to the [unsorted segment sum operator](#). Instead of computing the sum over segments, it computes the maximum such that:

$output_i = \max_j data_j$  where max is over  $j$  such that `segment_ids[j] == i`.

If the maximum is empty for a given segment ID  $i$ , it outputs the smallest possible value for specific numeric type, `output[i] = numeric_limits<T>::min()`.



Args:

- `data`: A **Tensor**. Must be one of the following types: `float32`, `float64`, `int32`, `int64`, `uint8`, `int16`, `int8`, `uint16`, `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.
- `num_segments`: A **Tensor** of type `int32`.
- `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 `num_segments`.

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