tf.unsorted_segment_sum

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

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

See the guide: Math > Segmentation

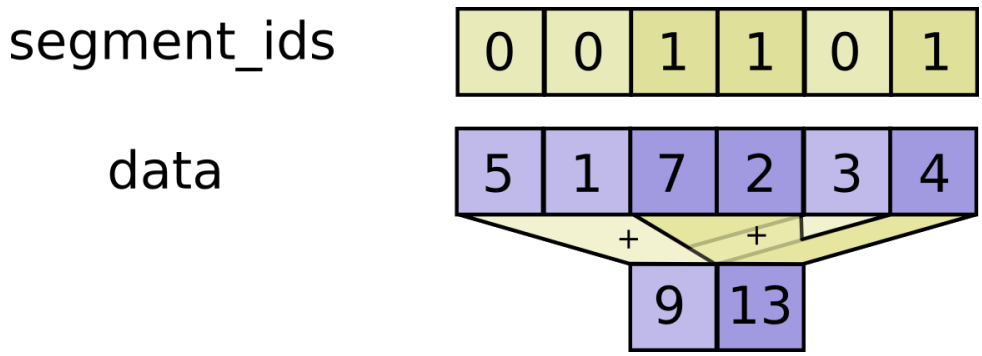
Computes the sum along segments of a tensor.

Read the section on segmentation for an explanation of segments.

Computes a tensor such that `(output[i] = sum_{j...} data[j...]` where the sum is over tuples `j...` such that `segment_ids[j...] == i`. Unlike `SegmentSum`, `segment_ids` need not be sorted and need not cover all values in the full range of valid values.

If the sum is empty for a given segment ID `i`, `output[i] = 0`.

`num_segments` should equal the number of distinct segment IDs.



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 tensor whose shape is a prefix of `data.shape`.
- `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 the first `segment_ids.rank` dimensions, which are replaced with a single dimension which has size `num_segments`.

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