tf.sparse_segment_sum

```
sparse_segment_sum(
    data,
    indices,
    segment_ids,
    name=None
)
```

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

See the guide: Math > Segmentation

Computes the sum along sparse segments of a tensor.

Read the section on segmentation for an explanation of segments.

Like `SegmentSum` , but `segment_ids` can have rank less than `data` 's first dimension, selecting a subset of dimension 0, specified by `indices` .

For example:

```
c = tf.constant([[1,2,3,4], [-1,-2,-3,-4], [5,6,7,8]])

# Select two rows, one segment.
tf.sparse_segment_sum(c, tf.constant([0, 1]), tf.constant([0, 0]))
# => [[0 0 0 0]]

# Select two rows, two segment.
tf.sparse_segment_sum(c, tf.constant([0, 1]), tf.constant([0, 1]))
# => [[ 1  2  3  4]
#     [-1 -2 -3 -4]]

# Select all rows, two segments.
tf.sparse_segment_sum(c, tf.constant([0, 1, 2]), tf.constant([0, 0, 1]))
# => [[0 0 0 0]
#     [5 6 7 8]]

# Which is equivalent to:
tf.segment_sum(c, tf.constant([0, 0, 1]))
```

Args:

- `data` : A `Tensor` . Must be one of the following types: `float32` , `float64` , `int32` , `int64` , `uint8` , `int16` , `int8` , `uint16` , `half` .
- `indices` : A `Tensor` . Must be one of the following types: `int32` , `int64` . A 1-D tensor. Has same rank as `segment_ids` .
- `segment_ids` : A `Tensor` of type `int32` . A 1-D tensor. 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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