tf.scatter_div

```
scatter_div(
    ref,
    indices,
    updates,
    use_locking=False,
    name=None
)
```

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

See the guide: Variables > Sparse Variable Updates

Divides a variable reference by sparse updates.

This operation computes

```
# Scalar indices
ref[indices, ...] /= updates[...]

# Vector indices (for each i)
ref[indices[i], ...] /= updates[i, ...]

# High rank indices (for each i, ..., j)
ref[indices[i, ..., j], ...] /= updates[i, ..., j, ...]
```

This operation outputs `ref` after the update is done. This makes it easier to chain operations that need to use the reset value.

Duplicate entries are handled correctly: if multiple `indices` reference the same location, their contributions divide.

Requires `updates.shape = indices.shape + ref.shape[1:]` .

Args:

- `ref` : A mutable `Tensor` . Must be one of the following types: `float32` , `float64` , `int64` , `int32` , `uint8` , `uint16` , `int16` , `int8` , `complex64` , `complex128` , `qint8` , `quint8` , `qint32` , `half` . Should be from a `Variable` node.
- `indices` : A `Tensor` . Must be one of the following types: `int32` , `int64` . A tensor of indices into the first dimension of `ref` .
- `updates` : A `Tensor` . Must have the same type as `ref` . A tensor of values that `ref` is divided by.
- `use_locking` : An optional `bool` . Defaults to `False` . If True, the operation will be protected by a lock; otherwise the behavior is undefined, but may exhibit less contention.
- `name` : A name for the operation (optional).

Returns:

Same as `ref` . Returned as a convenience for operations that want to use the updated values after the update is done.

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker

Release Notes

Stack Overflow

English

Terms | Privacy