tf.reverse

```
reverse(
    tensor,
    axis,
    name=None
)
```

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

See the guide: Tensor Transformations > Slicing and Joining

Reverses specific dimensions of a tensor.

NOTE `tf.reverse` has now changed behavior in preparation for 1.0. `tf.reverse_v2` is currently an alias that will be deprecated before TF 1.0.

Given a `tensor`, and a `int32` tensor `axis` representing the set of dimensions of `tensor` to reverse. This operation reverses each dimension `i` for which there exists `j` s.t. `axis[j] == i`.

`tensor` can have up to 8 dimensions. The number of dimensions specified in `axis` may be 0 or more entries. If an index is specified more than once, a InvalidArgument error is raised.

For example:

```
# tensor 't' is [[[[ 0,  1,  2,  3],
#                 [ 4,  5,  6,  7],
#                 [ 8,  9, 10, 11]],
#                [[12, 13, 14, 15],
#                 [16, 17, 18, 19],
#                 [20, 21, 22, 23]]]]
# tensor 't' shape is [1, 2, 3, 4]

# 'dims' is [3] or 'dims' is -1
reverse(t, dims) ==> [[[[ 3,  2,  1,  0],
                        [ 7,  6,  5,  4],
                        [ 11, 10, 9, 8]],
                       [[15, 14, 13, 12],
                        [19, 18, 17, 16],
                        [23, 22, 21, 20]]]]

# 'dims' is '[1]' (or 'dims' is '[-3]')
reverse(t, dims) ==> [[[[12, 13, 14, 15],
                        [16, 17, 18, 19],
                        [20, 21, 22, 23]
                       [[ 0,  1,  2,  3],
                        [ 4,  5,  6,  7],
                        [ 8,  9, 10, 11]]]]

# 'dims' is '[2]' (or 'dims' is '[-2]')
reverse(t, dims) ==> [[[[8, 9, 10, 11],
                        [4, 5, 6, 7],
                        [0, 1, 2, 3]]
                       [[20, 21, 22, 23],
                        [16, 17, 18, 19],
                        [12, 13, 14, 15]]]]
```

Args:

- `tensor`: A `Tensor`. Must be one of the following types: `uint8`, `int8`, `uint16`, `int16`, `int32`, `int64`, `bool`, `half`, `float32`, `float64`, `complex64`, `complex128`, `string`. Up to 8-D.
- `axis`: A `Tensor`. Must be one of the following types: `int32`, `int64`. 1-D. The indices of the dimensions to reverse. Must be in the range `[-rank(tensor), rank(tensor))`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor`. Has the same type as `tensor`. The same shape as `tensor`.

Last updated November 2, 2017.