TencorFlow

TensorFlow API r1.4

tf.dynamic_partition

```
dynamic_partition(
   data,
   partitions,
   num_partitions,
   name=None
)
```

Defined in tensorflow/python/ops/gen_data_flow_ops.py.

See the guide: Tensor Transformations > Slicing and Joining

Partitions data into num_partitions tensors using indices from partitions.

For each index tuple js of size partitions.ndim, the slice data[js, ...] becomes part of outputs[partitions[js]]. The slices with partitions[js] = i are placed in outputs[i] in lexicographic order of js, and the first dimension of outputs[i] is the number of entries in partitions equal to i. In detail,

```
outputs[i].shape = [sum(partitions == i)] + data.shape[partitions.ndim:]
outputs[i] = pack([data[js, ...] for js if partitions[js] == i])
```

data.shape must start with partitions.shape.

For example:

```
# Scalar partitions.

partitions = 1

num_partitions = 2

data = [10, 20]

outputs[0] = [] # Empty with shape [0, 2]

outputs[1] = [[10, 20]]

# Vector partitions.

partitions = [0, 0, 1, 1, 0]

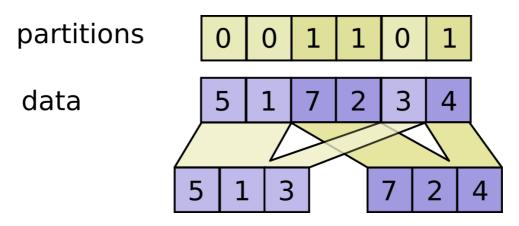
num_partitions = 2

data = [10, 20, 30, 40, 50]

outputs[0] = [10, 20, 50]

outputs[1] = [30, 40]
```

See dynamic_stitch for an example on how to merge partitions back.



Args:

- data: A Tensor.
- partitions: A Tensor of type int32. Any shape. Indices in the range [0, num_partitions).
- num_partitions: An int that is >= 1. The number of partitions to output.
- name: A name for the operation (optional).

Returns:

A list of $num_partitions$ Tensor objects with the same type as data.

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