TancarFlow

TensorFlow API r1.4

tf.accumulate_n

```
accumulate_n(
   inputs,
   shape=None,
   tensor_dtype=None,
   name=None
)
```

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

See the guide: Math > Reduction

Returns the element-wise sum of a list of tensors.

Optionally, pass shape and tensor_dtype for shape and type checking, otherwise, these are inferred.

NOTE: This operation is not differentiable and cannot be used if inputs depend on trainable variables. Please use **tf.add_n** for such cases.

Aside from differentiability, <code>tf.accumulate_n</code> performs the same operation as <code>tf.add_n</code>, but does not wait for all of its inputs to be ready before beginning to sum. This can save memory if inputs are ready at different times, since minimum temporary storage is proportional to the output size rather than the inputs size.

For example:

Args:

- inputs: A list of **Tensor** objects, each with same shape and type.
- shape: Shape of elements of inputs.
- tensor_dtype: The type of inputs.
- name: A name for the operation (optional).

Returns:

A Tensor of same shape and type as the elements of inputs.

Raises:

• ValueError: If inputs don't all have same shape and dtype or the shape cannot be inferred.

Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

