TancarFlow

TensorFlow API r1.4

tf.foldr

```
foldr(
    fn,
    elems,
    initializer=None,
    parallel_iterations=10,
    back_prop=True,
    swap_memory=False,
    name=None
)
```

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

See the guide: Higher Order Functions > Higher Order Operators

foldr on the list of tensors unpacked from elems on dimension 0.

This foldr operator repeatedly applies the callable **fn** to a sequence of elements from last to first. The elements are made of the tensors unpacked from **elems**. The callable fn takes two tensors as arguments. The first argument is the accumulated value computed from the preceding invocation of fn. If **initializer** is None, **elems** must contain at least one element, and its first element is used as the initializer.

Suppose that **elems** is unpacked into **values**, a list of tensors. The shape of the result tensor is **fn(initializer, values[0]).shape**.

Args:

- fn: The callable to be performed.
- elems: A tensor that is unpacked into a sequence of tensors to apply fn.
- initializer: (optional) The initial value for the accumulator.
- parallel_iterations: (optional) The number of iterations allowed to run in parallel.
- back_prop : (optional) True enables support for back propagation.
- swap_memory: (optional) True enables GPU-CPU memory swapping.
- name: (optional) Name prefix for the returned tensors.

Returns:

A tensor resulting from applying fn consecutively to the list of tensors unpacked from elems, from last to first.

Raises:

• TypeError: if fn is not callable.

Example:

```
elems = [1, 2, 3, 4, 5, 6]

sum = foldr(lambda a, x: a + x, elems)

# sum == 21
```

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