tensor.gather_nd

```

Copy fngather_nd(self:@Tensor, indices:Tensor, batch_dims:Option)->Tensor;

```

Given data tensor of rank r >= 1, indices tensor of rank q >= 1, and batch_dims integer b, this operator gathers slices of data into an output tensor of rank q + r - indices_shape[-1] - 1 - b.

Args

- self
- (@Tensor
-) - The input tensor.
- indices
- (Tensor
-) - Tensor of indices.
- batch_dims
- (Option
-) - The number of batch dimensions. The gather of indexing starts from dimension of data[batch_dims:].
-

Panics

- Panics if index values are not within bounds [-s, s-1] along axis of size s.
- Panics if If indices_shape[-1] > r-b.
- Panics if first b dimensions of the shape of indices tensor and data tensor are not equal.
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Returns

A newTensor .

Example

```

Copy usearray::{ArrayTrait,SpanTrait}; useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor};

fngather_nd_example()->Tensor { lettensor=TensorTrait::::new( shape:array![2,2].span(), data:array![[0,1], [2,3]].span(), ); letindices=TensorTrait::::new( shape:array![4,1].span(), data:array![[0], [0], [1], [1]].span(), );

returntensor.gather_nd( indices:indices, axis:Option::Some((0)), ); }

                [[0,1], [0,1], [2,3], [2,3]]

```

Previous tensor.gather_elements Next tensor.reduce_min

Last updated1 month ago