tensor.gather_nd

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Copy fngather nd(self:@Tensor, indices:Tensor, batch dims:Option)->Tensor;

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Given data tensor of rank $r \ge 1$, indices tensor of rank $q \ge 1$, 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:].

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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

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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)),); }

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Previous tensor.gather_elements Next tensor.reduce_min

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