tensor.acosh

```

Copy fnacosh(self:@Tensor)->Tensor;

```

Computes the inverse hyperbolic cosine of all elements of the input tensor.

! y i = a c o s h (x i) y_i=acosh({x_i})

Args

- self
- (@Tensor
-) - The input tensor.
-

Returns

Returns a new tensor inT with the hyperblic cosine of the elements of the input tensor.

Type Constraints

Constrain input and output types to fixed point tensors.

Examples

```

Copy usecore::array::{ArrayTrait,SpanTrait};

useorion::operators::tensor::{TensorTrait,Tensor,FP8x23Tensor}; useorion::numbers::{FixedTrait,FP8x23};

fnacosh_example()->Tensor { lettensor=TensorTrait:::new( shape:array![2,2].span(), data:array![
FixedTrait::new_unscaled(1,false), FixedTrait::new_unscaled(2,false), FixedTrait::new_unscaled(3,false),
FixedTrait::new_unscaled(4,false) ] .span(), );

returntensor.acosh(); }

                [[0,11047444],[14786996,17309365]] // The fixed point representation of // [[0, 1.31696],
                [1.76275, 2.06344]]

```

Previous tensor.cosh Next tensor.tanh

Last updated3 months ago