tensor.sinh

```

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

```

Computes the hyperbolic sine of all elements of the input tensor.

! y i = s i n h (x i) y_i=sinh({x_i})

Args

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

Returns

Returns a new tensor inT with the hyperbolic sine 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};

fnsinh_example()->Tensor { lettensor=TensorTrait:::new( shape:array![2,2].span(), data:array![
FixedTrait::new_unscaled(0,false), FixedTrait::new_unscaled(1,false), FixedTrait::new_unscaled(2,false),
FixedTrait::new_unscaled(3,false) ] .span(), );

returntensor.sinh(); }

                [[0,9858303],[30424311,84036026]] // The fixed point representation of // [[0, 1.175201],
                [3.62686, 10.0178749]]

```

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Last updated3 months ago