

tensor.cosh

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```
Copy fncosh(self:@Tensor)->Tensor;
```

...

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

$y_i = \cosh(x_i)$ $y_i = \cosh(\{x_i\})$

Args

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

Returns

Returns a new tensor in T with the hyperbolic cosine of the elements of the input tensor.

Type Constraints

Constrain input and output types to fixed point tensors.

Examples

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

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

```
fncosh_example()->Tensor { let tensor=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(), );
```

```
return tensor.cosh(); }
```

```
[[8388608,12944299],[31559585,84453670]] // The fixed point representation of // [[,  
1.54308],[3.762196, 10.067662]]
```

...

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Last updated 3 months ago