

tensor.acosh

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

...

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

$y_i = \text{acosh}(x_i)$

Args

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

Returns a new tensor inT 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};

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]]

...

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Last updated3 months ago