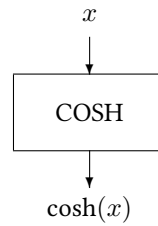


Block COSH

The COSH block returns the hyperbolic cosine of its input.



Name	COSH
Function	fb0068
Inputs	1
Outputs	1
Parameters	0
Strings	0
Group	S

Inputs

- | | |
|---|----------------|
| 1 | Any signal x |
|---|----------------|

Outputs

- | | |
|---|-------------------|
| 1 | Hyperbolic cosine |
|---|-------------------|

Parameters

None

Strings

None

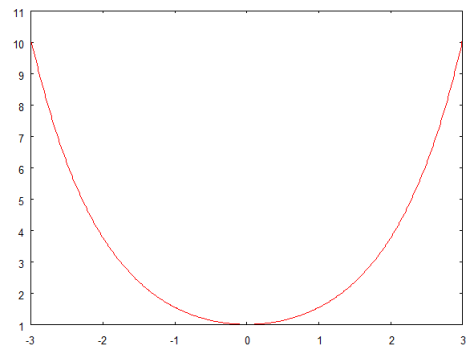
Description The hyperbolic cosine is defined as

$$\cosh(x) = \frac{\exp(x) + \exp(-x)}{2}$$

cosh.vseit



A **DO** block varies x from -3 to 3 in steps of 0.01 . The **COSH** block calculates $\cosh(x)$ and the **PLOT** block displays the graph on screen.



See also Blocks **COTH**, **CSCH**, **SCH**, **SINH**, **TANH**.