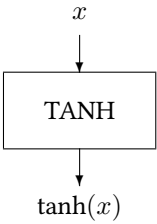


Block TANH

The TANH block returns the hyperbolic tangent of its input.



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

Inputs	1	Any signal x
Outputs	1	Hyperbolic tangent
Parameters		None
Strings		None

Description The hyperbolic tangent is defined as

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

`tanh.vseit`



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

