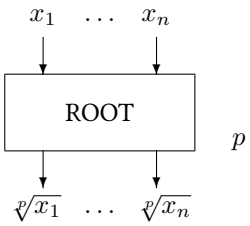
Block ROOT

The ROOT block returns the root of its input as defined through its parameter.





Name	ROOT
Function	fb0006
Inputs	1 ... [10]
Outputs	1 ... [10]
Parameters	1
Strings	0
Group	S

Inputs

i	Any value $x_i \geq 0$

Outputs

i	p^{th} root $\sqrt[p]{x_i}$

Parameters

1	Root exponent p with $\lvert p \rvert > 1$

Strings

None

Remarks

If the input value x is negative, the ROOT block displays a warning message and does no operation. If this happens more than once, the warning message is suppressed. At the end of a simulation run the total number of occurencies is displayed.

root.vseit



A CONST block provides the value 3.14. A ROOT block with parameter three calculates the third root of its input which is displayed by the SCREEN block

```
1.46434438
```