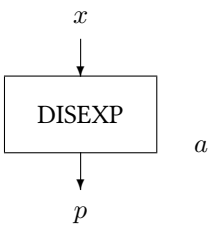
Block DISEXP

The DISEXP block calculates the exponential distribution.





Name	DISEXP
Function	fb0029
Inputs	1
Outputs	1
Parameters	1
Strings	0
Group	S

Inputs

1 Independent variable x

Outputs

1 Probability density $p(x)$

Parameters

1 Distribution parameter a

Strings

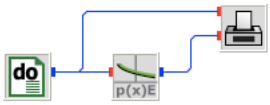
None

Description

The exponential distribution is defined by the probability density function

$$p(x) = \frac{1}{a} \exp\left(\frac{-x}{a}\right)$$

disexp.vseit



A DO block varies x from from -2 to 2 in steps of 0.01. The DISEXP block with its parameter set to one calculates the exponential distribution which is plotted by a PLOT block.

