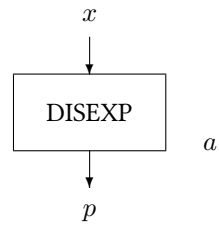


Block DISEXP

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 |
|---|----------------------------|

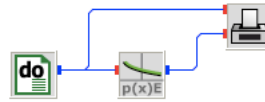
Strings

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.

