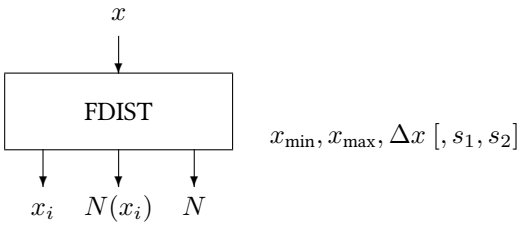
Block FDIST

The FDIST block calculates the frequency distribution of its input signal.





Name	FDIST
Function	fb0043
Inputs	1
Outputs	4
Parameters	3 . . . [5]
Strings	0
Group	T

Inputs

1	Any signal x

Outputs

1	Centre of a bin x_i
2	Normalised number of data in corresponding bin $N(x_i)$
3	Total number of data N
4	Absolute number of data in corresponding bin $N(x_i)$

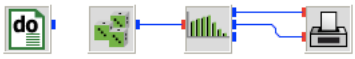
Parameters

1	Minimum $x_{\min}$ of distribution interval
2	Maximum $x_{\max}$ of distribution interval
3	Width Δx of bins; the total number of bins may not exceed 1000
4	Switch s_1 to suppress output of data outside the interval $[x_{\min}, x_{\max}]$. If s is set to 1 output is suppressed, otherwise the data are given for $x_{\min} - \Delta x/2$ or $x_{\max} + \Delta x/2$ by default, respectively
5	Switch s_2 to define the bin intervals right open [) by setting s_2 to 0 (default) or left open (] by setting s_2 to 1

Strings

None

fdist.vseit



A DO block delivers 1000 clicks, i. e., counts from 1 to 1000. The GASDEV block generates one normally distributed random number for each step. At the end of this process the FDIST block calculates the frequency distribution and the PLOT block displays the graph on screen.

