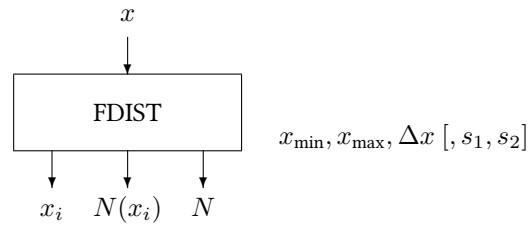


Block FDIST

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

- Any signal x

Outputs

- Centre of a bin x_i
- Normalised number of data in corresponding bin $N(x_i)$
- Total number of data N
- Absolute number of data in corresponding bin $N(x_i)$

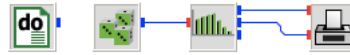
Parameters

- Minimum $x_{\min}$ of distribution interval
- Maximum $x_{\max}$ of distribution interval
- Width Δx of bins; the total number of bins may not exceed 1000
- 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
- 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.

