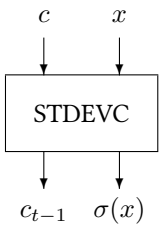
Block STDEVC

The STDEVC block calculates the standard deviation of its second input signal as long as the condition input remains constant. When this input changes its value, the standard deviation is on output and the successors of the block are executed.





Name	STDEVC
Function	fb0037
Inputs	2 . . . [51]
Outputs	2 . . . [51]
Parameters	0
Strings	0
Group	I

Inputs

1	Condition input c
2	Any signal x_1
n	Any signal x_{n-1}

Outputs

1	Condition input c delayed by one step
2	Standard deviation $\sigma(x_1)$ over all $c =$ const calls
n	Standard deviation $\sigma(x_{n-1})$ over all $c =$ const calls

Parameters

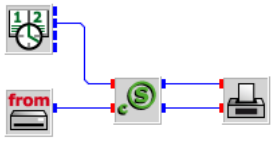
None

Strings

None

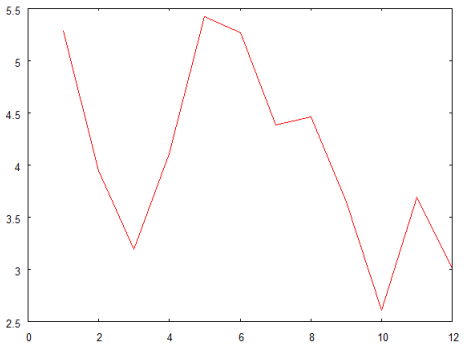
For a description of the calculation of the standard deviation, see block STDEV.

stdevc.vseit



A CLOCK block runs a READ block to read ambient temperature data from file `temperature.dat` located in the `examples/data` directory.

The STDEVC block calculates the monthly values for the standard deviation of the irradiance which varies around 4 degrees Celsius as displayed by the PLOT block.



See also Blocks STDEV and STDEVP.