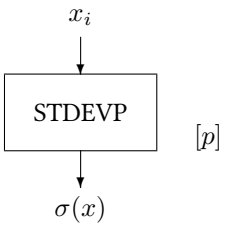
Block STDEVP

The STDEVP block calculates the standard deviation of its input signal over a number of steps as defined through its parameter.





Name	STDEVP
Function	fb0020
Inputs	1 . . . [50]
Outputs	1 . . . [50]
Parameters	1
Strings	0
Group	I

Inputs

i Any signal x_i

Outputs

i Standard deviation $\sigma(x_i)$ of x_i

Parameters

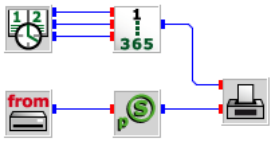
1 Number p of steps to build the standard deviation $\sigma(x_i)$ of x_i

Strings

None

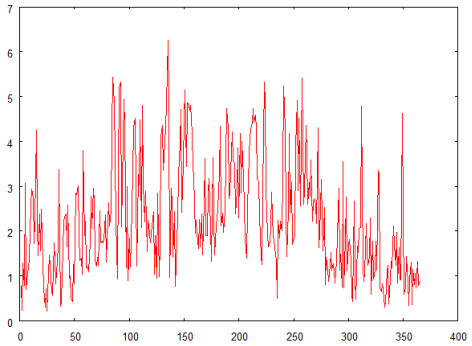
For a description of the calculation of the standard deviation, see block STDEV.

stdevp.vseit



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

The STDEVP block calculates the daily mean values for the standard deviation of the irradiance which varies between zero an six degrees Celsius as displayed by the PLOT block. The x coordinate is provided by a DOY block (day of the year).



See also Blocks STDEV and STDEVC.