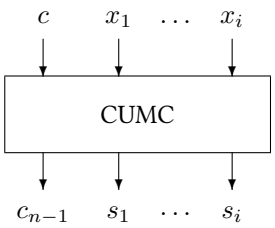
Block CUMC

The CUMC block cumulates its second input signal as long as the condition input remains constant. When this input changes its value, the cumulated sum is on output and the successors of the block are executed.





Name	CUMC
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	Cumulated sum s_1 over all $c =$ const calls
n	Cumulated sum s_{n-1} over all $c =$ const calls

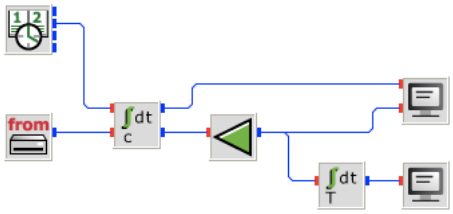
Parameters

None

Strings

None

cumc.vseit



A CLOCK block runs through all 8760 hours of a year. The READ block reads radiation data from a data file in W/m^2. The CUMC block cumulates the data over each month. An ATT block converts the result into kWh/m^2. Finally, the SCREEN block displays the result on screen. In addition, the CUM cumulates the monthly values over the whole year and a second SCREEN block displays the annual result.

```
Month  1.: Radiation    21.86 kWh/m^2
Month  2.: Radiation    33.94 kWh/m^2
Month  3.: Radiation    74.66 kWh/m^2
Month  4.: Radiation   119.25 kWh/m^2
Month  5.: Radiation   142.43 kWh/m^2
Month  6.: Radiation   144.02 kWh/m^2
Month  7.: Radiation   160.57 kWh/m^2
Month  8.: Radiation   105.14 kWh/m^2
Month  9.: Radiation    84.20 kWh/m^2
Month 10.: Radiation    37.78 kWh/m^2
Month 11.: Radiation    18.99 kWh/m^2
Month 12.: Radiation    11.85 kWh/m^2
Annual radiation   954.69 kWh/m^2
```

See also Blocks CUM, CUMP.