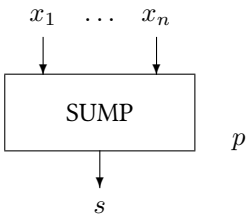
Block SUMP

The SUMP block cumulates its inputs over a given number of calls.





Name	SUMP
Function	fb0041
Inputs	1 . . . [999]
Outputs	1
Parameters	1
Strings	0
Group	S

Inputs

1	Any value x_1
2	Any value x_2
n	Any value x_n

Outputs

1	Cumulated sum s of all x_i for $i = 1 \ldots n \leq 999$. After p steps the sum s is reset to zero.

Parameters

1	Number $p > 0$ of steps to cumulate the input signals

Strings

None

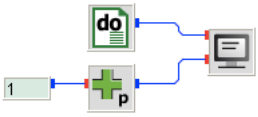
Description

The block calculates the sum of the inputs $x_1 \ldots x_n$ according to

$$s(t_{m+1}) = s(t_m) + \sum_{i=1}^{n} x_i$$

The sum is reset to zero after p steps.

sump.vseit



A DO block counts from one to six. The SUMP block cumulates the CONST one and performs a reset every five steps, as specified by the parameter of the SUMP block. The result is shown by a SCREEN block.

```
1.0       1.0
2.0       2.0
3.0       3.0
4.0       4.0
5.0       5.0
6.0       1.0
```