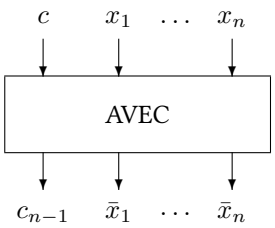
Block AVEC

The AVEC block cumulates its second input signal as long as the condition input remains constant. When this input changes its value, the average is calculated and the successors of the block are executed.





Name	AVEC
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	Average $\bar{x}_1$
n	Average $\bar{x}_{n-1}$

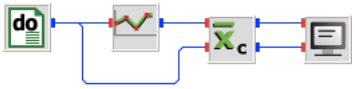
Parameters

None

Strings

None

avec.vseit



In a DO block numbers are counted from 1 to 6. The POLYG block provides the condition (either 1 or 2) as a function of the DO block's signal through the parameters

```
1 1
2 1
3 2
4 2
5 2
6 2
```

The AVEC block calculates the conditional average and finally the result is displayed by the SCREEN block.

```
1.   1.50
2.   4.50
```

See also Blocks AVE, AVEM, AVEP.