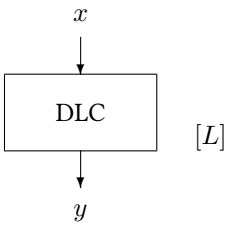
Block DLC

The DLC block tests whether the input signal is downward crossing a threshold level.





Name	DLC
Function	fb0039
Inputs	1
Outputs	1
Parameters	0 . . . [1]
Strings	0
Group	S

Inputs

1 Any input signal x.

Outputs

1 Indicator y for downward level crossing, y is set to one if x has crossed L from $x > L$, else y set to zero

Parameters

1 Threshold level L (default $L = 0$)

Strings

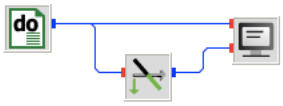
None

Description

The output of this block is defined as

$$y = \begin{cases} 1 & \text{if } x \text{ has crossed } L \text{ from } x > L \text{ to } x \leq L \\ 0 & \text{else} \end{cases}$$

dlc.vseit



A DO block decreases numbers from 5 to 1 in steps of −1. The DLC block checks for downward level crossing at threshold 2.5. Both the counter and the output of the DLC block are then displayed using the SCREEN block.

```
5.   0.
4.   0.
3.   0.
2.   1.
1.   0.
```

See also Block ULC.