**step**

*Function of generation of step-wise input action.*

**Syntax:**

х = **flash**(time, val1, val2);

**Arguments:**

*time* – actuation time,

*val1* – value before actuation moment,

*val2* – value after actuation moment.

**Description:**

*step(time, val1, val2)* – function performs discrete change of output value from *val1* to *val2* in time *time*. Function is available in the “Programming Language” block.

**Result:**

*x* – output value.

**Example:**

|  |  |
| --- | --- |
|  | //Calculation of transient and weight function  T=1;  b=[0.1 0.3 0.5 0.7 1];  **init** x1=[0,0,0,0,0], x2=[0,0,0,0,0];  u=**step**(2,0,1);  x1'=x2;  x2'=-(x1+b\*T\*x2-5#u)/T^2; |