**limit**

*Function of limiting value by specified interval*

**Syntax:**

*xres* = **limit**(*x*,*xmin*,*xmax*);

**Arguments:**

*x* – input value,

хmin – minimum interval value,

*xmax* – maximum interval value.

**Description:**

*limit(x, xmin, xmax)* – function of limiting value *x* by specified interval *xmin, xmax*.

**Result:**

*xres* – equals *x* at fulfilling conditions of inequality *xmin<x<xmax*

– equals *xmin* at fulfilling condition x<= *xmin*

– equals *xmax* at fulfilling condition x>= *xmax*

**Example:**

|  |  |
| --- | --- |
|  | **input** x1;  **output** x2;  Min = 0.5;  Max = 0.7;  x2 = **limit**(x1, Min, Max); |

As a result, output variable of block x2 will be equal to input variable x1, but limited at the “bottom” and at the “top” by the values 0.5 and 0.7 inclusive.