**addsignaltolist**

Function of addition of a signal to the project signals list.

**Syntax:**

**addsignaltolist***(type, reg, name, descr, val, init*);

**Arguments:**

*type –* type of signal data,

*reg –* signal mode,

*name* – string containing the signal name,

*descr* – string containing the signal title,

*val –* string containing the signal initial value,

*init –* method of signal initialization.

**Description:**

*addsignaltolist(type, reg, name, descr, val, init)* *–* the function adds a signal with mode *reg*, name *name*, title (description) *descr* and initial value *val* to the project signals list.

Parameter *init* is optional and can adopt the following values:

0 *–* variable,

1 *–* constant,

2 – w/o pre-calculation.

Type of signal *type* data can adopt the following values:

0 *–* real,

1—integer,

2 *–* binary,

3 – color,

4 *–* string,

5 – array of real numbers,

12 – array of integers,

13 – matrix of real numbers,

21 – complex number,

22 – complex array,

23 – complex matrix.

**Result:**

None*.*

**Example:**

|  |  |
| --- | --- |
|  | **beforecompile**  **if not signalexist**("gant\_s") **then** **addsignaltolist**(13,0,"gant\_s","gant\_s","[[0]]",2);  **if not signalexist**("gant\_tend") **then** **addsignaltolist**(13,0,"gant\_tend","gant\_tend","[[0]]",2);  **if not signalexist**("gant\_t0") **then addsignaltolist**(13,0,"gant\_t0","gant\_t0","[[0]]",2);  **end;**  gant\_s = [1,2,3]; |

The example presents dynamical addition of new signals to the project signals list with the following application of created signals in the same script.