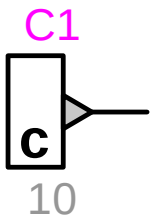
Control device : constant



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1 Description

This device provides a constant value C as the output signal.
The constant value is a user-defined parameter.

1.1 Pins

This device has one signal pin:

pin	*description*	*value when unconnected*
out	output	as calculated

1.2 Parameters

Selection options for the output signal value:

option	*value*	*rules*
zero	output = zero	
constant value	output = user-defined value	any value

1.3 History

No user-defined history is required.

1.4 Scopes

Setting the scope flag enables monitoring of the output signal during the simulation.

1.5 Output signal interpolation

No output signal interpolation is required.

2 Time-domain representation

In the time domain at t>0,
the output value is calculated as follows:

$$out(t) = C \quad (1)$$

3 Steady-state representation

In the time domain at t>0,
the output value is calculated as follows:

$$out(0) = C \quad (2)$$

4 Netlist

4.1 Format

Netlist format:

```
_c_cst;name;1;1;out,
value,scope,
```

field	*description*	*value*
c_cst name 1 1	part name instance name pin count pin count	
out	signal name of the output	
value	output value	constant value
scope	monitoring, optional	"?s" for enabled

The comma separated data is saved into the ParamsA attribute of this device.