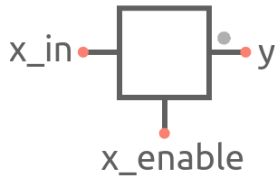


monostable_1.gce



Attributes

```
mainvars:
+   x_in
+   y
+   x_enable
iparms:
+   active_pos_edge=1
+   active_neg_edge=0
rparms:
+   T=0.1
+   x_low=0
+   x_high=1
+   y_low=0
+   y_high=1
```

Description

monostable_1.gce produces a pulse of duration T at the output y when an active edge is detected at the input x_{in} .

If `active_pos_edge` is 1, a positive edge at x_{in} is considered to be active. If `active_neg_edge` is 1, a negative edge at x_{in} is considered to be active.

The parameters `x_low` and `x_high` describe the low and high values of the input (x_{in}), i.e., the input is considered to be low if its value is less than $(x_{low} + x_{high})/2$ and high otherwise.

The parameters `y_low` and `y_high` specify the low and high values of the output y .

If `x_enable` is 0, the output (y) is made equal to `y_low` irrespective of any transition at x_{in} .

AC behaviour is not implemented.