## Attributes

```
xbe name=edge_delay_1 evaluate=yes limit_tstep=yes save_history=yes allow_ssw=no
# When a positive edge at x is detected, y is made to change
# from low to high after the specified delay (t_delay).
#
Jacobian: variable
input_vars: x
output_vars: y
aux_vars:
iparms:
sparms:
rparms:
+ x_high=1
+ t_delay=10u
+ t_rise=0.01m
+ x_prev=0
+ x_cross=0
+ t2=0
+ epsl1=0
stparms:
igparms:
outparms: x y
```

## Description

edge\_delay\_1.xbe is used for shifting a clock-type signal by a delay interval. The parameters have the
following meaning.

t\_delay: delay interval.

t\_rise: rise time (i.e., time for the low-to-high transition at the output).

x\_high: high level (in both input and output waveforms).

x and y are made available as output variables. Fig. 1 illustrates the working of this element.

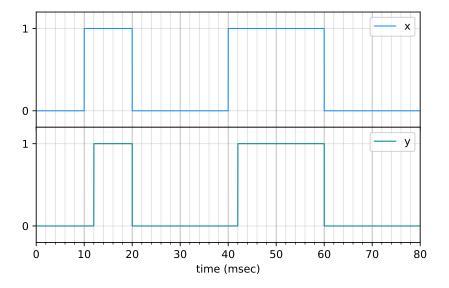


Figure 1: Input x(t) and output y(t) for edge\_delay\_1.xbe. The parameter values are t\_delay = 2m, t\_rise = 0.01m, x\_high = 1.