delay_onestep_1.xbe

Attributes

```
xbe name=delay_onestep_1 evaluate=yes limit_tstep=yes save_history=yes allow_ssw=no
#
# delay by one time step; also limit time step
#
Jacobian: variable
input_vars: x
output_vars: y
aux_vars:
iparms:
sparms:
rparms:
+   x_high=1.0
+   dt=0.1u
+   x_last=0
+   x_cross=0
stparms:
igparms:
outparms: x y
```

Description

delay_onestep_1.xbe is used to delay a signal by one simulation time step. In addition, it also limits the simulation time step as follows. The input x is assumed to be in the form of pulses (going from 0 to x_high and back). delay_onestep_1.xbe detects the low-to-high and high-to-low transitions in x and introduces additional time points (dt after the transition).

Apart from the time-step limiting feature, delay_onestep_1.xbe is similar to delay_onestep.xbe.