sampler.xbe

Attributes

```
xbe name=sampler evaluate=yes limit_tstep=yes save_history=yes allow_ssw=no
# sample and hold
Jacobian: variable
input_vars: x
output_vars: y
aux_vars:
iparms:
sparms:
rparms:
+ T=10u
+ t0=0
+ v_previous=0
+ dt=1u
+ epsl1=0
+ eps12=0
stparms: y_st=0
igparms:
outparms: x y
```

Description

sampler.xbe is used to sample a signal (x) at uniform intervals. The parameters have the following meaning:

T: sampling interval.

t0: offset which determines the position of the first sample.

dt: dt is related to the resolution of the output y(t). It should be small as compared to T.

x and y are made available as output variables. Fig. 1 shows waveforms obtained with sampler.xbe.

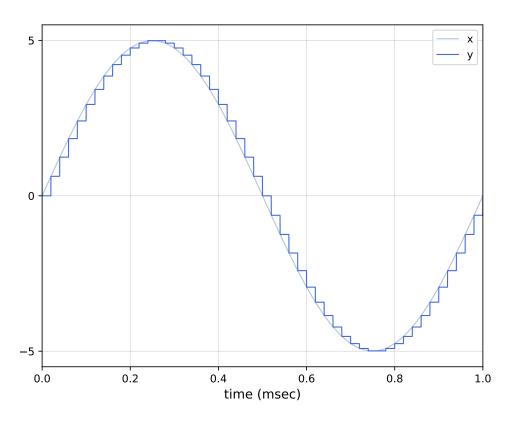


Figure 1: Waveforms obtained with sampler.xbe, with T = 0.02m, t0 = 0, dt = 0.2u.