Attributes

```
xbe name=triangle_2 evaluate=yes limit_tstep=yes
# triangle source
# similar to triangle_1; this is symmetric with period T
Jacobian: constant
input_vars:
output_vars: y
aux_vars:
iparms:
+ flag_frequency=0
+ flag_period=1
sparms:
# L1 is the level at the beginning of the first interval
rparms:
+ T=1
+ frequency=1
+ L1=-1
+ L2=1
+ t0=0
+ slope1=0
+ slope2=0
+ epsl=0
+ T1=0
+ T2=0
stparms:
igparms:
outparms: y
```

Description

triangle_2.xbe is a symmetric triangle wave source with y as its output. The parameters have the following meaning:

T: time period. This parameter applies if flag_period is 1.

frequency: frequency. This parameter applies if flag_frequency is 1.

L1, L2: y goes from L1 to L2 in the first half period and from L2 to L1 in the second half period.

t0: An "offset" time interval by which the waveform is shifted (to the right).

The effect of the various paramters of triangle_2.xbe on y(t) is shown in the following figures.

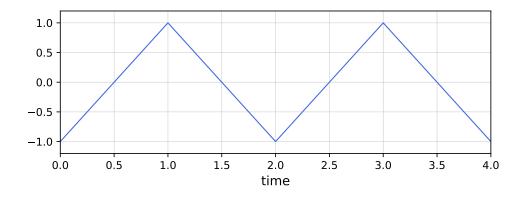


Figure 1: y(t) obtained with flag_period = 1, flag_frequency = 0, T = 2, L1 = -1, L2 = 1, t0 = 0.

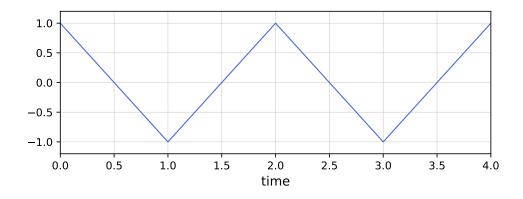


Figure 2: y(t) obtained with flag_period = 1, flag_frequency = 0, T = 2, L1 = 1, L2 = -1, t0 = 0.

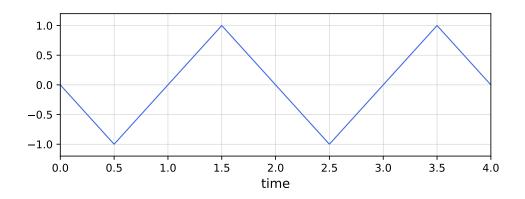


Figure 3: y(t) obtained with flag_period = 1, flag_frequency = 0, T = 2, L1 = -1, L2 = 1, t0 = 0.5.