Attributes

```
xbe name=pwl20 evaluate=yes limit_tstep=yes
# pwl20 source
Jacobian: constant
input_vars:
output_vars: y
aux_vars:
iparms: n=2
sparms:
rparms:
+ t1 =1 t2 =2 t3 =3 t4 =4 t5 =5
  t6 =6 t7 =7 t8 =8 t9 =9 t10=10
  t11=11 t12=12 t13=13 t14=14 t15=15
 t16=16 t17=17 t18=18 t19=19 t20=20
  v1 =1 v2 =2 v3 =3 v4 =4 v5 =5
 v6 =6 v7 =7 v8 =8 v9 =9 v10=10
  v11=11 v12=12 v13=13 v14=14 v15=15
+ v16=16 v17=17 v18=18 v19=19 v20=20
stparms:
igparms:
outparms: y
```

Description

pwl20.xbe is used to generate a piecewise linear waveform with up to 20 "break points". The parameters have the following meaning:

n: Number of break points.

t1, t2, etc.: Time of break point 1, 2, etc.

v1,v2, etc.: Value of y at the corresponding break point. y is made constant (equal to v1) before t1. Also, y is made constant after the nth break point.

An example is shown in the following figure.

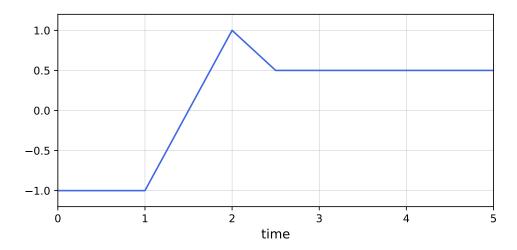


Figure 1: y(t) obtained with n = 3, t1 = 1, t2 = 2, t3 = 2.5, v1 = -1, v2 = 1, v3 = 0.5.