

## pwm20\_1.gce

### Attributes

```
mainvars: y
iparms:
+   ndata=2
+   level_0minus=0
rparms:
+   frequency=50
+   g_low=0
+   g_high=1
+   theta_delay=0
+   theta_1=90
+   theta_2=120
+   theta_3=0
+   theta_4=0
+   ...
+   ...
+   theta_20=0
```

### Description

pwm20\_1.gce can be used to produce a periodic pattern of pulses (as in PWM applications).

The parameters have the following meaning:

**ndata:** Number of output transitions (up to 20).

**level\_0minus:** If **level\_0minus** is 0, the starting value of the output is low (given by **g\_low**); else, it is high (given by **g\_high**), as shown in the figure.

**frequency:** Frequency  $f$  of the pattern. The time period  $T$ , which corresponds to  $360^\circ$ , is computed as  $1/f$ .

**theta\_delay:** Interval between  $\theta = 0$  and the beginning of the pulse pattern ( $\Delta$  in the figure).

**theta\_1, theta\_2, etc.:** Value of  $\theta_1, \theta_2$ , etc. in degrees.

AC behaviour is not implemented.

