

pwm_file_1.gce

Attributes

```
mainvars: y
iparms: level_0minus=0
sparms: file_name=None
rparms:
+ frequency=50
+ g_low=0
+ g_high=1
+ theta_delay=0
```

Description

pwm_file_1.gce can be used to produce a periodic pattern of pulses (as in PWM applications).

The parameters have the following meaning:

file_name: Name of the file (assumed to be present in the **Output** directory) with data in the following format and θ values specified in degrees.

```
ndata (number of transitions)
theta_1
theta_2
theta_3
...
```

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° , is computed as $1/f$.

theta_delay: Interval between $\theta = 0$ and the beginning of the pulse pattern (Δ in the figure).

AC behaviour is not implemented.

