

## clock\_thyr.gce

### Attributes

```
mainvars: y
rparms:
+ g_high=1.0
+ tperiod=0
+ tw=10u
+ alpha=0
+ dt=0.1u
```

### Description

clock\_thyr.gce is a pulse train generator, with the general variable  $y$  as its output. It is particularly useful for firing thyristors. The parameters have the following meaning:

**g\_high:** High level of the pulse; the low level is assumed to be zero.

**tperiod:** Period of the pulse train.

**tw:** Pulse width.

**alpha:** Offset (with respect to  $t = 0$ ) in degrees, where one period corresponds to  $360^\circ$ .

**dt:** Width of low-to-high and high-to-low transitions. **dt** should be generally set to  $1/10$  of **tw** or smaller.

AC behaviour is not implemented.

The effect of the various parameters of clock\_thyr.gce is shown in the following figure.

