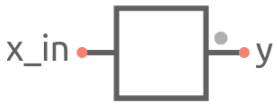
monostable_angle.gce



Attributes

```
  mainvars:
+   x
+   y
  iparms:
+   active_pos_edge=1
+   active_neg_edge=0
  rparms:
+   beta=20
+   frequency=50
+   x_low=0
+   x_high=1
+   y_low=0
+   y_high=1
```

Description

`monostable_angle.gce` produces a pulse of duration T at the output `y` when an active edge is detected at the input `x`. The pulse duration T' is given by

$$T' = \frac{\beta}{360} \times \frac{1}{f},$$

where the angle β (in degrees) and frequency f (in Hz) are specified by the parameters `beta` and `frequency`, respectively.

If `active_pos_edge` is `1`, a positive edge at `x` is considered to be active. If `active_neg_edge` is `1`, a negative edge at `x` is considered to be active.

The parameters `x_low` and `x_high` describe the low and high values of the input (`x`), i.e., the input is considered to be low if its value is less than (`x_low` + `x_high`)/2 and high otherwise.

The parameters `y_low` and `y_high` specify the low and high values of the output `y`.

AC behaviour is not implemented.