

s_gate_pulses_1ph_1 (subcircuit)

Attributes

```
inputs: x1 x2
outputs: y1 y2
parameters:
  name: none
  delt_min: 1e-6
  delt_nrml: 10e-6
  t_delay: 1e-3
  y_high: 1
```

Description

s_gate_pulses_1ph_1 is designed to generate signals required to drive a pair of switches in a “non-overlapping” manner. It compares inputs x1 and x2 and produces outputs y1 and y2. The value of y1 is y_high if x1 > x2; else, it is zero. For y2, the opposite is true; viz., y2 is equal to g_high if x1 < x2; else, it is zero. However, a delay is introduced between the transitions in y1 and y2 as depicted in Fig. 1.

The parameters `delt_min`, `delt_nrml` are used for controlling the simulator time steps (see documentation for `cmpr_1_1`).

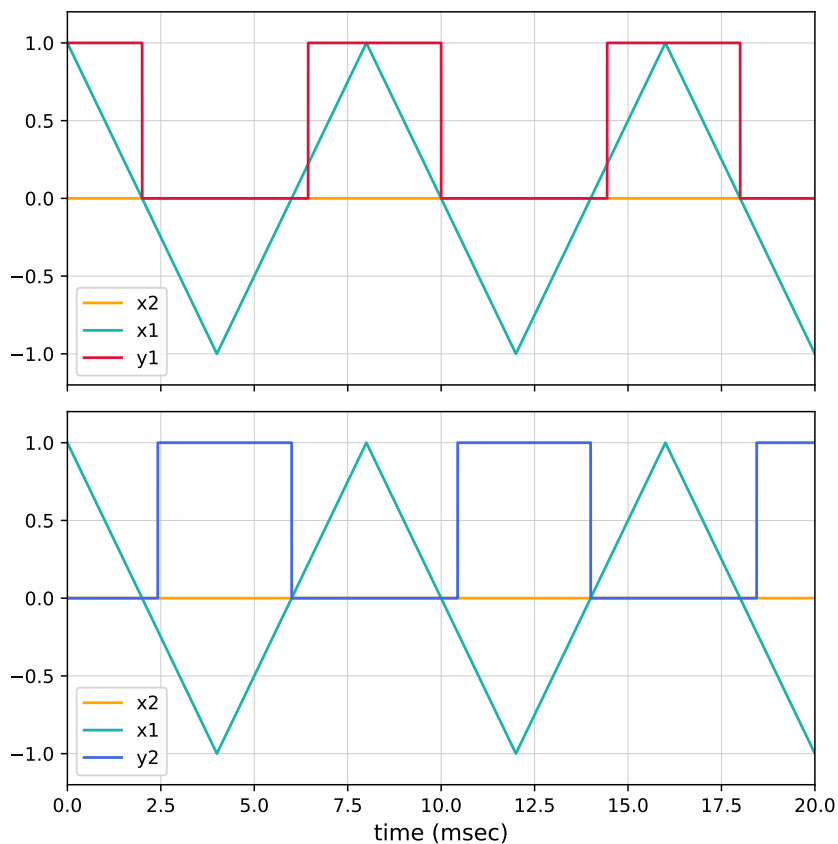


Figure 1: Sample waveforms obtained with s_gate_pulses_1ph_1. The parameter values are `delt_min` = 0.02 μ s, `delt_nrml` = 0.2 ms, `y_high` = 1, `t_delay` = 0.5 ms.