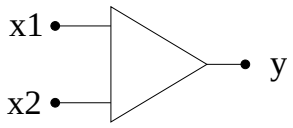
cmprtr_1_dly.gce



Attributes

```
  mainvars: x1 x2 y
  rparms: g_high=1.0 epsl=1.0e-6 delt_min=1.0e-6
+    delt_nrml=1.0e-3 dly=1m
```

Description

`cmprtr_1_dly.gce` is a comparator which compares general variables `x1` and `x2`. The output `y` is `g_high` if `x1` > `x2`; else, it is zero. A delay (`dly`) between the change in the input conditions and the output (`y`) is incorporated internally. This feature is sometimes useful in convergence of Newton-Raphson iterations. The value assigned to `dly` should be sufficiently small to ensure that it does not change the simulation results.

The parameters `delt_min`, `delt_nrml`, and `epsl` are used for controlling the simulator time steps. Additional time points are forced, depending on the values of `delt_min` and `delt_nrml`, when `x1` and `x2` are within `epsl` of each other. This feature allows accurate simulation without having to make the average time step very small. Generally, `delt_nrml` should be made equal to the typical simulator time step (`delt_const`) while `delt_min` should be made much smaller (say, by a factor of 100).

AC behaviour is not implemented.