cmpr_simple_2_2.xbe

Attributes

```
xbe name=cmpr_simple_2_2 evaluate=yes
# if x1 > x2, y1 = high, else low
# (reverse if flag_inverting=1)
# y2 = not(y1)
Jacobian: variable
input_vars: x1 x2
output_vars: y1 y2
aux_vars:
iparms: flag_invert=0
sparms:
rparms:
+  y_low=0
+  y_high=1
stparms:
igparms:
outparms: x1 x2 y1 y2
```

Description

cmpr_simple_2_2.xbe is a comparator with the following behaviour.

(a) flag_invert = 0:
y1 = y_high if x1 > x2,
= y_low if x1 < x2.

(b) flag_invert = 1:
y1 = y_high if x1 < x2,
= y_low if x1 > x2.

The other output y2 is the complement of y1.

This element should be used only when the simulation time step is small enough to capture the output transitions with good resolution.