

cmprh_2_2.xbe

Attributes

```
xbe name=cmprh_2_2 evaluate=yes limit_tstep=yes save_history=yes
# if  $x_1 - x_2 > x_0 \pm h/2$ ,  $y_1 = \text{high}$ , else  $\text{low}$ ;  $y_2$  is  $\text{not}(y_1)$ 
# (reverse if  $\text{flag\_inverting}=1$ )
#  $h$  is the hysteresis band, centred around  $x_0$ 
Jacobian: variable
input_vars: x1 x2
output_vars: y1 y2
aux_vars:
iparms:
+ flag_invert=0
+ flag_quad=0
sparms:
rparms:
+  $x_0=0$ 
+  $y_{\text{low}}=0$ 
+  $y_{\text{high}}=1$ 
+  $h=0.1$ 
+  $\text{epsl}=1.0\text{e-}6$ 
+  $\text{delt\_min}=1.0\text{e-}6$ 
+  $\text{delt\_nrml}=0.001$ 
stparms:
igparms:
outparms: x1 x2 y1 y2
```

Description

cmprh_2_2.xbe is a comparator with hysteresis. Its behaviour is similar to cmprh_2_1.xbe; the only difference is that cmprh_2_2.xbe provides complementary signals y_1 and y_2 as outputs.

x_1 , x_2 , y_1 , y_2 are made available as output variables.