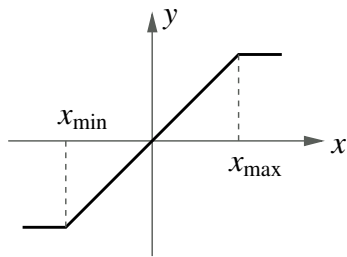


limiter.xbe

Attributes

```
xbe name=limiter evaluate=yes
Jacobian: variable
input_vars: x
output_vars: y
aux_vars:
iparms:
sparms:
rparms: xmin=-1 xmax=1
stparms:
igparms:
outparms: x y
```

Description



`limiter.xbe` limits the value of the output variable y if the input variable x is outside a certain range. Specifically,

$$\begin{aligned} y &= x_{\min} && \text{if } x < x_{\min}, \\ &= x_{\max} && \text{if } x > x_{\max}, \\ &= x && \text{otherwise.} \end{aligned}$$

The input-output relation is shown in the figure. Note that there are no restrictions on x_{\min} and x_{\max} except $x_{\min} < x_{\max}$.