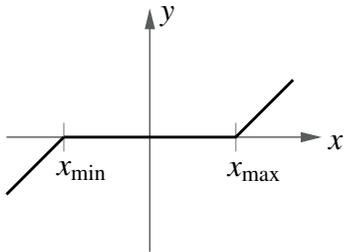


## dead\_zone.xbe

### Attributes

```
xbe name=dead_zone 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



dead\_zone.xbe implements the following relationship.

$$\begin{aligned} y &= x - x_{\min} && \text{if } x < x_{\min}, \\ &= x - x_{\max} && \text{if } x > x_{\max}, \\ &= 0 && \text{otherwise.} \end{aligned}$$

The input-output relation is shown in the figure.