

## sum\_4.xbe

### Attributes

```
xbe name=sum_4 evaluate=yes
# y = k1*x1 + k2*x2 + ... + k4*x4
Jacobian: constant
input_vars: x1 x2 x3 x4
output_vars: y
aux_vars:
iparms:
sparms:
rparms:
+ k1=1 k2=1 k3=1 k4=1
stparms:
igparms:
outparms: x1 x2 x3 x4 y
```

### Description

sum\_4.xbe is used to get a weighted sum of the inputs  $x_1, x_2, x_3, x_4$ . The output is given by

$$y = \sum_{i=1}^4 k_i x_i. \quad (1)$$