Subject: Multiplication turning array into scalar -- who wants to try?
Posted by swingnut on Sun, 01 Apr 2007 03:40:57 GMT
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JOURNALING AT IDL PROMPT:

```
temp=[0.0,-1.0,0.0]
print,size(temp)
;           1           3           4           3
temp2=-25.0
print,size(temp2)
;           0           4           1
print,temp2/ABS(temp2)
;      -1.00000
temp2=temp2/ABS(temp2)
print,SIZE(temp2)
;           0           4           1
print,temp2*temp
;      0.000000      1.00000      0.000000
temp=temp2*temp
print,temp
;      0.000000      1.00000      0.000000
print,SIZE(temp)
;           1           3           4           3
```

OUTPUT OF SEQUENCE OF PRINT STATEMENTS IN MY CODE:

```
;----------
;Adjusting density power law in increments of [0.000000 , -1.00000 ,
0.000000 ]
;adjustmentIncrement =
;      0.000000     -1.00000      0.000000
;SIZE of adjustmentIncrement =
;           1           3           4           3
;-----
;deltaVirtHeight =
;    -0.0678234
;SIZE of deltaVirtHeight =
;           1           1           4           1
;-----
;signOfDifference = deltaVirtHeight/ABS(deltaVirtHeight) =
;      -1.00000
;SIZE of signOfDifference =
;           1           1           4           1
;-----
;Multiply signOfDifference with each element of adjustmentIncrement,
i.e.,
 ;adjustmentIncrement[i]=adjustmentIncrement[i]*signOfDiffere nce,
```

i=0,1,2:
;adjustmentIncrement =
;   0.000000   1.00000   0.000000
;SIZE of adjustmentIncrement =
;   1   3   4   3
;-----
;But if we do
adjustmentIncrement=adjustmentIncrement*signOfDifference, it becomes a
scalar?
;adjustmentIncrement =
;   0.000000
;SIZE of adjustmentIncrement =
;   1   1   4   1
; % Attempt to subscript LOCDENSPL with <INT   (1)> is out
of range.
