
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]*signOfDifference,
```

```

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.

```
