
Subject: Subscripting multidimensional arrays

Posted by [Jonathan Greenberg](#) on Fri, 12 Dec 2003 09:04:19 GMT

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Hi all -- I was hoping to get some help with converting a vector which contains the x,y,z position for a value I want to extract from a multidimensional array -- I understand that using an array to subscript another array requires knowing the linear subscript position. For example:

```
a =  0  10  20
     30  40  50
     60  70  80

     90 100 110
    120 130 140
    150 160 170
```

I have a vector which is defined as:
locationvector=[2,2,2]

I want to extract the value at that position (e.g. $a[2,2,2] = 170$), but I can't do a:
`a[locationvector]` --> I apparently have to convert the locationvector to that linear position. How do I do this? Does IDL have a built in function that will do this conversion, or is there an easy formula for doing this conversion in ANY dimension? Thanks!

--j
