
Subject: subscripting arrays with dim > 1

Posted by [fireman](#) on Fri, 28 Aug 1998 07:00:00 GMT

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I'd like to reference an array with a variable containing a subscript for each dimension, passing the subscripts as an array. For instance:

```
IDL> array = indgen(5,5)
IDL> print,array
    0    1    2    3    4
    5    6    7    8    9
   10   11   12   13   14
   15   16   17   18   19
   20   21   22   23   24
IDL> print,array[0,4]
    20
```

But I can't seem to reference each dimension. Instead, the subscript array is passed as two instances of a single subscript:

```
IDL> index=[0,4]
IDL> print,array[index]
    0    4
```

I can of course calculate a single index, but it seems a bit clunky:

```
IDL> s=size(array)
IDL> print,s
    2    5    5    2   25
IDL> print,array[index(0)*s(1)+index(1)*s(2)]
    20
- or -
IDL> print,array[long(total(s(1:s(0))*index))]
    20
```

Is there a better way?

Gwyn

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