
Subject: Re: Subscripting multidimensional arrays
Posted by [JD Smith](#) on Fri, 12 Dec 2003 21:35:10 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Fri, 12 Dec 2003 14:15:33 -0700, Christopher Lee wrote:

```
> JD Smith wrote:
>> On Fri, 12 Dec 2003 07:55:16 -0700, Christopher Lee wrote:
> <snip>
>>
>> PRODUCT works nicely for this:
>>
>> function linear_indices,array,vec_indices
>>   s=size(array,/DIMENSIONS)
>>   nd=n_elements(s)
>>   if nd eq 1 then return,s[0]
>
> ;you mean "return ,vec_indices" , yes?
```

Whoops, yes, sorry:

```
if nd eq 1 then return, vec_indices[0]

>>   return,long(total([1.,product(s[0:nd-1],/CUMULATIVE)]*vec_in dices))
>> end
>
> PRODUCT doesn't seem to exist on my IDL installations (5.3->5.6
> inclusive), is it an IDL 6 thing? I've written my own obviously, but not
> with CUMULATIVE. Hopefully the IDL 6 licence will work on Monday.>
```

Strange, it shipped with IDL5.6.

```
>
>
>> to go the other direction, IDL6 offers ARRAY_INDICES. Or you can
>> always just resort to:
>>
>> a[vec[0],vec[1],vec[2]]
>>
>>
> Ahem, oops. Apparently I used a cluster bomb to open a can of beans...a
> switch case statement would take care of the dimensions upto the IDL
> limit of 8 dimensions, or using IDL's ability to ignore trailing
> dimensions if they're 0 hack to use 8 dimensions every time.
```

Yes, but that would be ugly ;). What if IDL increases the 8-dim limit in the future?

JD
