## Subject: Re: Subscripting multidimensional arrays Posted by JD Smith on Fri, 12 Dec 2003 21:35:10 GMT

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

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> 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
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the future?

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