
Subject: Re: Undocumented array indexing feature?
Posted by [Craig Markwardt](#) on Thu, 21 Jan 1999 08:00:00 GMT
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Liam Gumley <Liam.Gumley@ssec.wisc.edu> writes:

```
>  
> Here's a way to index an array I hadn't seen before:  
>  
> a = indgen(10,10)  
> x = [3,5,8,9]  
> y = [2,7]  
> print, (a[x,*])[*,y]  
>      23      25      28      29  
>      73      75      78      79  
>  
> Does anyone know where this feature (i.e. enclosing an array with  
> parentheses and appending an index) is documented? I couldn't find it in  
> my printed IDL 5.0 documentation.
```

It's not really an array indexing feature per se. In your example, a temporary expression is first created from `a[x,*]`, and then *that* temporary expression is indexed according to `[*,y]`. Internally, IDL must do some more copying than straight array indexing, so your operation is not as efficient. On the other hand it probably does what you want. I like it!

By the way, indexing of expressions is allowed, as long as you throw a pair of parentheses around it. The following sometimes appears in my code:

```
n = (size(x))[0]
```

The result of `size(x)` is an array; this statement takes the first element of that array.

Craig

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```
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Craig B. Markwardt, Ph.D.      EMAIL: craigmnet@astro.physics.wisc.edu  
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response  
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```