
Subject: Re: Array index for arrays

Posted by [Craig Markwardt](#) on Tue, 04 Dec 2001 14:35:25 GMT

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the_cacc@hotmail.com (trouble) writes:

```
> z=indgen(4,4)
> ix=[0,1]
> help,z[ix,ix]
>
> <Expression>   INT      = Array[2]
...
> Not what I expected !?!
```

Yes, this has burned me a couple of times. The short answer is that when you combine two or more "index lists", then they are treated as one-for-one coordinate lists. What you want can be achieved in two separate indexing steps:

```
help, (z[ix,*])[*,iy]
```

Ie, first do the X index then the Y index.

Craig

--

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

Subject: Re: Array index for arrays

Posted by [air_jlin](#) on Wed, 05 Dec 2001 02:40:56 GMT

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Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message news:<onr8qb6ok2.fsf@cow.physics.wisc.edu>...

```
> [...]
>
> Yes, this has burned me a couple of times. The short answer is that
> when you combine two or more "index lists", then they are treated as
> one-for-one coordinate lists. What you want can be achieved in two
> separate indexing steps:
>
> but how come adding a third "*" dimension gives something you would
> expect?
```

```
IDL> z=indgen(3,2,4)
```

```
IDL> ix=[0,1]
```

```
IDL> print,z
```

```
  0   1   2
  3   4   5
```

```
  6   7   8
  9  10  11
```

```
 12  13  14
 15  16  17
```

```
 18  19  20
 21  22  23
```

```
IDL> print,z[ix,ix,*]
```

```
  0   1
  3   4
```

```
  6   7
  9  10
```

```
 12  13
 15  16
```

```
 18  19
 21  22
```

thanks!

best,
-Johnny

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