
Subject: Re: arrays as subscripts

Posted by [David Fanning](#) on Fri, 17 May 2002 03:39:43 GMT

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lyubo (lzagorch@cs.wright.edu) writes:

- > Suppose I have 3 arrays with the same dimensions: A, B and C.
- >
- > I have to use the non zero elements of A as index to access B, then use
- > the accessed values from B as index to access C, and finally store the
- > values from C in a new array at the previously indexed positions of B.
- >
- > Is there an effective way to do that in IDL? I can write a call to a
- > C function but I was wondering if I can do it only in IDL.
- >
- > Any examples and help would be appreciated.

I'm doing this after a couple of beers, so...

```
I = Where(A GT 0, count)
IF count GT 0 THEN BEGIN
  bindex = b[i]
  b[i] = c[bindex]
ENDIF
```

Cheers,

David

--

David W. Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: arrays as subscripts

Posted by [mperrin+news](#) on Fri, 17 May 2002 04:05:26 GMT

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David Fanning <david@dfanning.com> wrote:

> lyubo (lzagorch@cs.wright.edu) writes:

>

>> Suppose I have 3 arrays with the same dimensions: A, B and C.

>>

>> I have to use the non zero elements of A as index to access B, then use

>> the accessed values from B as index to access C, and finally store the

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> IF count GT 0 THEN BEGIN
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>   b[i] = c[bindex]
> ENDIF
```

He said a new array, though, for the last one, so something like

```
newarr = fltarr(n_elements(B)) ; or whatever type of arr it is
I = Where(A GT 0, count)
IF count GT 0 THEN BEGIN
  newarr[i] = c[b[i]]
ENDIF
```

I think that's what he was getting at...

- Marshall

Subject: Re: arrays as subscripts
Posted by [David Fanning](#) on Fri, 17 May 2002 07:54:22 GMT
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Marshall Perrin (mperrin+news@arkham.berkeley.edu) writes:

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>
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>
> I think that's what he was getting at...
```

Uh, right. I went a beer too far. :-(

Cheshers,

David

--

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Subject: Re: arrays as subscripts
Posted by [Dick Jackson](#) on Fri, 17 May 2002 14:52:32 GMT
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"Marshall Perrin" <mperrin+news@arkham.berkeley.edu> wrote in message
news:ac1vi6\$28r8\$1@agate.berkeley.edu...

> David Fanning <david@dfanning.com> wrote:

>>

>> I = Where(A GT 0, count)

>> IF count GT 0 THEN BEGIN

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>> b[i] = c[bindex]

>> ENDIF

>

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>

> newarr = fltarr(n_elements(B)) ; or whatever type of arr it is

A favorite trick of mine for making a cleared-out copy of an array (with the
same type) is:

```
newarr = Make_Array(Size=Size(B)) ; *whatever* type of arr it is!
```

Cheers,

--

-Dick

Dick Jackson / dick@d-jackson.com
D-Jackson Software Consulting / <http://www.d-jackson.com>
Calgary, Alberta, Canada / +1-403-242-7398 / Fax: 241-7392

Subject: Re: arrays as subscripts
Posted by [lyubo](#) on Fri, 17 May 2002 20:38:51 GMT
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Thanks for your help!

Lyubo

"David Fanning" <david@dfanning.com> wrote in message
news:MPG.174e651d56947d449898e0@news.frii.com...
> Marshall Perrin (mperrin+news@arkham.berkeley.edu) writes:
>
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>
> Cheshers,
>
> David
>
> --
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