

---

Subject: Re: Variable stride in array indices  
Posted by [bowman](#) on Tue, 18 May 1999 07:00:00 GMT  
[View Forum Message](#) <[Reply to Message](#)

---

In article <3732EFA0.1F6C49C0@ssec.wisc.edu>, Liam Gumley  
<Liam.Gumley@ssec.wisc.edu> wrote:

> Or I can select the columns and rows at the same time:

>  
> IDL> print,(a[x,\*])[\*,x]  
>   0   2   4   6   8  
>  20  22  24  26  28  
>  40  42  44  46  48  
>  60  62  64  66  68  
>  80  82  84  86  88

I had a chance to look at my code to see if Liam's suggestion would work, and I realized that it won't, because I need to use the variable stride on the \*left\* side of the equal sign, i.e.

IDL> a = LINDGEN(6,6)

IDL> print, a

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

IDL> print, (a[\*,2\*LINDGEN(3)][2\*LINDGEN(3),\*])

0	2	4
12	14	16
24	26	28

works fine \*extracting\* data, but

IDL> (a[\*,2\*LINDGEN(3)][2\*LINDGEN(3),\*]) = -1

% Temporary variables are still checked out - cleaning up...

IDL> PRINT, A

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35

fails.

So it is possible to extract values (gather) but not to insert values

(scatter) with a variable stride using this method.

I repeat my call for a simple stride syntax in IDL

a[0:5:2,0:5:2] = -1

Ken

--

Dr. Kenneth P. Bowman, Professor                  409-862-4060  
Department of Meteorology                  409-862-4466 fax  
Texas A&M University                  bowmanATcsrp.tamu.edu  
College Station, TX 77843-3150                  Replace AT with @

---