
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
Department of Meteorology
Texas A&M University
College Station, TX 77843-3150

409-862-4060
409-862-4466 fax
bowmanATcsrp.tamu.edu
Replace AT with @
