
Subject: Re: REFORM: new subscripts must not change the number elements in array

Posted by [Paul Van Delst\[1\]](#) on Mon, 02 Mar 2015 17:20:56 GMT

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On 03/02/15 11:46, g.nacarts@gmail.com wrote:

> I didn't understand the logic of this reform(a, 100l, 200l*2l). If
> instead of A=[200,200] we have A=[216,216] and we want 120x(216x216)
> then this is written as reform(a, 120l, 216l*2l). Is that correct?

No. That is not correct.

Read:

<http://www.exelisvis.com/docs/REFORM.html>

The very first line of the description (actually, the only line) says:

<quote>

The REFORM function changes the dimensions of an array without changing the total number of elements.

</quote>

If you start with A=[200,200] and you want B=[200,200,100] (i.e. 100 sets of 200x200 arrays) then REFORM is not the command to use.

I think you want REBIN:

<http://www.exelisvis.com/docs/REBIN.html>

```
IDL> a=lindgen(4,4)
```

```
IDL> print, a
```

```
   0   1   2   3
   4   5   6   7
   8   9  10  11
  12  13  14  15
```

Now create 10 "copies" of a, stacked into a 3-D array:

```
IDL> b=rebin(a,4,4,10)
```

```
IDL> print, b[*,*,0]
```

```
   0   1   2   3
   4   5   6   7
   8   9  10  11
  12  13  14  15
```

```
IDL> print, b[*,*,6]
```

```
   0   1   2   3
   4   5   6   7
   8   9  10  11
  12  13  14  15
```

>
> I am trying to understand how you end up with reform(a, 100l,
> 200l*2l). Because when I typed this a = randomu(s, 216,216) help,
> reform(a, 120l, 216l*2l,/overwrite) I got the same error "REFORM: New
> subscripts must not change the number elements in A."
>
