
Subject: Re: REPLICATE with arrays

Posted by [Liam E. Gumley](#) on Fri, 11 Feb 2000 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Vince Hradil <hradilv@yahoo.com> wrote in message
news:38A43130.D0ACB994@yahoo.com...

> I often have the need to replicate an array, but IDL's replicate only
> works with scalars. Does anyone have any tips on the most efficient,
> simplest, clearest (you choose) way to do this?

>

> e.g.

>

> I have:

> help, x

> INT = Array[3, 3]

> print, x

> 2 4 10

> 3 7 5

> 3 9 2

>

> and would like to do:

> x2 = replicate(x,2)

> help, x2

> INT = Array[3, 3, 2]

> print, x2

> 2 4 10

> 3 7 5

> 3 9 2

>

> 2 4 10

> 3 7 5

> 3 9 2

>

> I've figured out some trick for 1 and 2 dimensional arrays, but I'm

> looking for a more general strategy to use on higher dim arrays.

How about this:

```
IDL> arr = indgen(3, 3)
```

```
IDL> print, arr
```

```
0 1 2
```

```
3 4 5
```

```
6 7 8
```

```
IDL> arr = rebin(reform(arr, 3, 3, 1), 3, 3, 2, /sample)
```

```
IDL> print, arr
```

```
0 1 2
```

```
3 4 5
```

```
6 7 8
```

0	1	2
3	4	5
6	7	8

REFORM adds an extra dimension, and REBIN expands the array along the extra dimension. This will work just fine for higher dimensions.

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley>
