Subject: Re: adding "placeholders" to an array
Posted by Paul Van Delst[1] on Tue, 06 Jun 2006 21:53:38 GMT
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pimpk24@hotmail.com wrote:
> Hello,
>
> I was wondering if there is a way to change the dimesions of an
> existing array and to hardwire the new values. It seems that the rebin
> and reform functions only add values by interpolation and nearest
> sampling. I want to predeterming what the new value will be
>
> e.g. Given a random vector, how can I add dimensions of all zero values
>
> 1 4 6 7 8 354 42345
> 0 0 0 0 0 0 0
> 0 0 0 0 0 0 0
>
>
> thanks in advance
>

Brute force methods:

```
IDL> x=[1, 4, 6, 7, 8, 354,  42345]
IDL> n=n_elements(x)
IDL> print, [[x],[make_array(n,2,value=0)]]
         1       4       6       7       8     354   42345
         0       0       0       0       0       0       0
         0       0       0       0       0       0       0
```

Or, you could use LONARR instead:

```
IDL> print, [[x],[lonarr(n,2)]]
         1       4       6       7       8     354   42345
         0       0       0       0       0       0       0
         0       0       0       0       0       0       0
```

but the use of MAKE_ARRAY means you can change the "placeholder" value to something other than zero if you wanted.

paulv

p.s. I'm sure there's a more elegant method than those above. :o)

--
Paul van Delst Ride lots.

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Subject: Re: adding "placeholders" to an array
Posted by Michael Galloy on Tue, 06 Jun 2006 22:02:53 GMT
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pimpk24@hotmail.com wrote:
> I was wondering if there is a way to change the dimesions of an
> existing array and to hardwire the new values. It seems that the rebin
> and reform functions only add values by interpolation and nearest
> sampling. I want to predeterming what the new value will be
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> e.g. Given a random vector, how can I add dimensions of all zero values
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> 0 0 0 0 0 0 0
> 0 0 0 0 0 0 0
>
>
> thanks in advance
>

You can't change the size of the array without recreating and copying:

```
IDL> v = [1L, 4L, 6L, 7L, 8L, 354L, 42345L]
IDL> newv = lonarr(7, 3)
IDL> newv[0, 0] = reform(v, 7, 1)
IDL> print, newv
           1           4           6           7           8         354
       42345
           0           0           0           0           0           0
           0
           0           0           0           0           0           0
           0
```

Mike
--
www.michaelgalloy.com

Subject: Re: adding "placeholders" to an array
Posted by David Fanning on Tue, 06 Jun 2006 22:12:09 GMT
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pimpk24@hotmail.com writes:

> I was wondering if there is a way to change the dimesions of an
> existing array and to hardwire the new values. It seems that the rebin
> and reform functions only add values by interpolation and nearest
> sampling. I want to predeterming what the new value will be
>
> e.g. Given a random vector, how can I add dimensions of all zero values
>
> 1 4 6 7 8 354 42345
> 0 0 0 0 0 0 0
> 0 0 0 0 0 0 0

The answer to this problem can be found in the Array Concatenation
and Dimensional Juggling Tutorials:

http://www.dfanning.com/tips/array_concatenation.html
http://www.dfanning.com/tips/rebin_magic.html

For example:

```
IDL> a = [ 1, 4, 6, 7, 8, 354, 42345L]
IDL> b = LonArr(7,2)
IDL> c = [[a],[b]]
IDL> Print, c
      1       4       6       7       8     354   42345
      0       0       0       0       0       0       0
      0       0       0       0       0       0       0
```

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.dfanning.com/