Subject: Re: Replicate array over columns - using transpose?
Posted by Russell[1] on Thu, 22 Mar 2012 15:17:35 GMT
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It's way easier than that.

Suppose,
a=[10,35,60,85,110.]

and you want it to have n entries, then all you need is

b=(1+bytarr(n))#a

voila!

Russell

On Mar 22, 6:11 am, Robin Wilson <ro...@rtwilson.com> wrote:
> Hi all,
>
> I've got an array, a, as follows:
>
> IDL> print, a
> 10.0000 35.0000 60.0000 85.0000 110.000
>
> I want to replicate this across 4 columns to produce an array like the
> following:
>
> 10 10 10 10
> 35 35 35 35
> 60 60 60 60
> 85 85 85 85
> 110 110 110 110
>
> I'm using the CMREPLICATE routine to do this, and get the following:
>
> IDL> print, CMREPLICATE(a, 4)
> 10.0000 35.0000 60.0000 85.0000 110.000
> 10.0000 35.0000 60.0000 85.0000 110.000
> 10.0000 35.0000 60.0000 85.0000 110.000
> 10.0000 35.0000 60.0000 85.0000 110.000
>
> However, I want to replicate it in the columns as in the example above.
> As far as I can see it there are two ways to deal with this: transpose
> the array after I've done it (computationally expensive, as I'll be

> doing it with far larger arrays in the real program) or transpose it
> before running CMREPLICATE. However, if I do this I get an extra
> dimension added:
>
> IDL> help, CMREPLICATE(transpose(a), 4)
> <Expression>   FLOAT   = Array[1, 5, 4]
>
> Is there a way to replicate over the columns without adding this extra
> dimension? I'm sure I'm missing something simple here.
>
> Cheers,
>
> Robin
