## Subject: Re: Replicate array over columns - using transpose? Posted by Lajos Foldy on Thu, 22 Mar 2012 10:50:39 GMT View Forum Message <> Reply to Message

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On Mar 22, 11:11 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)
                              60.0000
>
      10.0000
                  35.0000
                                         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
b=rebin(reform(a,1,5), 5,5)
```

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