
Subject: Re: Replicate array over columns - using transpose?

Posted by [Lajos Foldy](#) on Thu, 22 Mar 2012 10:50:39 GMT

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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)

> 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

b=rebin(reform(a,1,5), 5,5)

regards,
Lajos
