Subject: Re: Array question
Posted by rkj on Thu, 13 Sep 2001 19:45:56 GMT
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R. Kyle Justice (rkj@dukebar.crml.uab.edu) wrote:
: I have a 3D array that I need to reformat to a 2D
: array, but I don't think I can use REBIN because
: the third dimension needs to be grouped with the
: first.

: arr(60,80,100) needs to be arr(6000,80)

: Any ideas without loops?

: KJ

Pose the question to the group and then the answer
will come to you.

Transpose(arr)
Reform(arr) not Rebin

Kyle

Subject: Re: Array question
Posted by Craig Markwardt on Thu, 13 Sep 2001 21:30:46 GMT
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rkj@dukebar.crml.uab.edu (R. Kyle Justice) writes:

> R. Kyle Justice (rkj@dukebar.crml.uab.edu) wrote:
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> : Any ideas without loops?
>
> : KJ
>
> Pose the question to the group and then the answer
> will come to you.
>
> Transpose(arr)

> Reform(arr) not Rebin

Excellent! Though, you might be careful about which way you transpose
a 3d array since there are so many permutations. For example, both
these uses of TRANSPOSE will group the 1st and 3rd dimensions:

```
IDL> a = indgen(2,3,4)
IDL> help, transpose(a,[0,2,1])
<Expression>    INT       = Array[2, 4, 3]
IDL> help, transpose(a,[1,0,2])
<Expression>    INT       = Array[3, 2, 4]
```

The question is whether you want to keep the original 1st dimension in
the same position or in the 2nd position.

Good luck,
Craig

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Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
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