Subject: Re: 2D to 3D Array
Posted by David Fanning on Fri, 07 Apr 2006 20:19:47 GMT
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rafaloos@gmail.com writes:

> I have a Band Interleaved Image (BIL):
> samples = 300
> lines = 316
> bands = 481
>
> I can read this image as a 2D array of (144300, 316) Where 144300 will
> be the product of samples by bands.
> I would like to reformat the image so that I can put the data into an
> array such as (300, 316, 481).
>
> For example: I have this array (6,2)
>
> array[*,0] = [1, 2, 1, 2, 1, 2]
> array[*,1] = [3, 4, 3, 4, 3, 4]
>
> What I want is a result as:
>
> array[*,*,0] = 1, 2
> 3, 4
>
> array[*,*,1] = 1, 2
> 3 ,4
>
> array[*,*,2] = 1, 2
> 3, 4
>
> so that my array will be (2,2,3)

First reform your array into a [2,3,2] array:

```
array = Reform(array, 2, 3, 2)
```

Then, transpose the dimensions the way you want them:

```
array = Transpose(array, [0,2,1])
```

```
IDL> print, array[*,*,2]
      1       2
      3       4
IDL> print, array[*,*,1]
      1       2
      3       4
```

```
IDL> print, array[*,*,0]
      1       2
      3       4
```

Cheers,

David

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