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Subject: Re: Another simple one  
Posted by [Jean H.](#) on Mon, 30 Jul 2007 16:19:51 GMT  
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> Is that possible? Or does my array have to be square so have to  
> truncate the whole thing at element 4 for example?

>  
> Cheers,  
>  
> Snudge42  
>

Hi,

You can also use a 1D array containing all of your data... then you should know which entries correspond to which line...

ex: a = [1,2,3,4,5,6]

you can think of A as

1,2,3  
 ,4,5  
 , ,6

So, but this starts to be useful with big arrays, you can have a 2D array that indexes the 1D array...

ex:

indices2Dto1D = [[0,1,2],[-1,3,4],[-1,-1,5]]

print, "value of 2,2 = ", a[indices2Dto1D[2,2]] ==> 6

and

indices1Dto2D = [0,1,2,4,5,8]

print, "2D coords of the value 6 = ", indices1Dto2D[where(a eq 6)] ==>  
8 (this is the 1D coordinate in the 2D array... you can transform it  
back to 2,2)

Jean

PS: I use this all the time to keep satellite images covering a study area having a crazy shape... I save about 75% of the otherwise required memory! ... I have to keep only 1 array covering the entire area, and all the other arrays cover only the study area!

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