Subject: Re: XY position of subscripts on Fri, 11 May 2012 15:36:44 GMT Posted by View Forum Message <> Reply to Message Den fredagen den 11:e maj 2012 kl. 17:14:27 UTC+2 skrev KH: > Hello. > I have a quick question I was hoping to get some help with. > Assuming you have a 2D array and then use WHERE to find specific > subscripts in the array, how can you convert those subscripts into X and Y coordinates? > I feel like this is something I should know how to do, but I am > drawing a blank right now. > Thanks. > Kim Here's an example: IDL> Ni=10 IDL> Nj=20 IDL> A=bytarr(Ni,Nj) IDL > A[4,7]=1IDL> indx=where(A eq 1) IDL> print, A[indx mod Ni, indx / Ni] 1 Subject: Re: XY position of subscripts Posted by KH on Fri, 11 May 2012 16:02:40 GMT View Forum Message <> Reply to Message On May 11, 11:36 am, Mats Löfdahl <mats.lofd...@gmail.com> wrote: Den fredagen den 11:e maj 2012 kl. 17:14:27 UTC+2 skrev KH: > >> Hello. >> I have a quick question I was hoping to get some help with. >> Assuming you have a 2D array and then use WHERE to find specific >> subscripts in the array, how can you convert those subscripts into X >> and Y coordinates? > >> I feel like this is something I should know how to do, but I am >> drawing a blank right now. >> Thanks, >> Kim

> Here's an example:

```
> IDL> Ni=10
> IDL> Nj=20
> IDL> A=bytarr(Ni,Nj)
> IDL> A[4,7]=1
> IDL> indx=where(A eq 1)
> IDL> print, A[indx mod Ni, indx / Ni]
```

Thanks for the reply, but what I am looking for are the X and Y positions of where the array equals 1. So in your example, how would I get X=4 and Y=7 from the subscripts generated by the WHERE command? Kim

Subject: Re: XY position of subscripts Posted by cgguido on Fri, 11 May 2012 16:56:47 GMT View Forum Message <> Reply to Message

Use array\_indices

print, array indices(array, where(array eq 1))

G

> G

Subject: Re: XY position of subscripts Posted by KH on Fri, 11 May 2012 17:00:47 GMT

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On May 11, 12:56 pm, Gianguido Cianci < gianguido.cia...@gmail.com> wrote:

- > Use array indices
- > print, array indices(array, where(array eq 1))

Thank you, this is what I was looking for. I knew it was simple... Kim

Subject: Re: XY position of subscripts

on Fri, 11 May 2012 17:01:36 GMT Posted by

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Den fredagen den 11:e maj 2012 kl. 18:02:40 UTC+2 skrev KH: > On May 11, 11:36 am, Mats Löfdahl <mats.lofd...@gmail.com> wrote: >> Den fredagen den 11:e maj 2012 kl. 17:14:27 UTC+2 skrev KH: >> >>> Hello. >>> I have a quick question I was hoping to get some help with. >> >>> Assuming you have a 2D array and then use WHERE to find specific >>> subscripts in the array, how can you convert those subscripts into X >>> and Y coordinates? >> >>> I feel like this is something I should know how to do, but I am >>> drawing a blank right now. >>> Thanks, >>> Kim >> >> Here's an example: >> >> IDL> Ni=10 >> IDL> Nj=20 >> IDL> A=bytarr(Ni,Nj) >> IDL> A[4,7]=1 >> IDL> indx=where(A eq 1) >> IDL> print,A[indx mod Ni, indx / Ni] >> > > Thanks for the reply, but what I am looking for are the X and Y > positions of where the array equals 1. So in your example, how would > I get X=4 and Y=7 from the subscripts generated by the WHERE command?

Those are the indices I used in the last line: indx mod Ni and indx / Ni.

Subject: Re: XY position of subscripts
Posted by cgguido on Mon, 14 May 2012 00:09:08 GMT
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On Friday, May 11, 2012 12:00:47 PM UTC-5, KH wrote:

> On May 11, 12:56 pm, Gianguido Cianci <gianguido.cia...@gmail.com>
> wrote:

>> Use array_indices

>> print, array_indices(array, where(array eq 1))

>> G

> Thank you, this is what I was looking for. I knew it was simple...

> Kim
```

Welcome.	The main	advantage	of array_	_indices	is that it car	think in	multi-dimension	is and I	can't
;-)									