Subject: Re: using the WHERE function on a portion of an array
Posted by becky_s on Tue, 04 Mar 2008 22:17:06 GMT
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On Mar 4, 2:15 pm, Jean H <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>
wrote:

> Now you are try to apply your 2D array in a 3D one, which can not work
> properly.
> To access your 3D array, you must either have a 3D index, or have a 1D
> index.
>
> So in your case, you want to write in C, on the 5th plane:
> indices1D_C = indices + (n_elements(C[0,*,*]) * 4
> And you want to read B on the 1st plane:
> indices1D_B = indices
>
> and then C[indices1D_C] = B[indices1D_B]
>

Jean,
Well, that is pretty slick! I knew there had to be some problem with
all my 2d to 3d dimension switching I was doing.

I did have to modify your solution somewhat, though. I ended up with
(I also generalized my previous code somewhat):

```
indices = WHERE(A[i,*,*] ge j AND A[i,*,*] lt (j+1), count)
if count gt 0 then begin
  indices1D_C = indices*n_elements(C[*,0,0]) + j
  indices1D_B = indices*n_elements(A[*,0,0]) + i
  C[indices1D_C] = B[indices1D_B]
endif
```

Thanks again.