Subject: Re: using the WHERE function on a portion of an array
Posted by becky_s on Fri, 07 Mar 2008 17:05:17 GMT
View Forum Message <> Reply to Message

Jean,

Thanks for the tip about n_elements, I will do that! As for the other stuff, I think we have the same idea but are talking at cross-purposes. In your above example,
> ex: n_elements(A[*,0,0]) = 100 (10*10 array)
> index = 99 (last element of the 2D array)
> 99 * 100 = 9 900 ==> you are in the 99th plane, even if you haven't
> specified the plane!!!

My "indices" variable is actually from the 2D array A[0,*,*], but my computation of the 1D index uses n_elements(A[*,0,0]). So, for example, let A be a 4x2x2 array:
2830 0 0 0
2830 0 0 0

0 0 0 0
2830 0 0 0

and B another 4x2x2 array:
20 0 0 0
60 0 0 0

0 0 0 0
9 0 0 0

indices = WHERE(A[0,*,*] ge 2830 AND A[0,*,*] lt 2831, count)
;indices evaluates to 0, 1, 3

;Now, convert to 1D:
indices1D_B = indices * n_elements(A[*,0,0]) + 0
;yields 0, 4, 12

When I plug 0, 4, and 12 into B, I get the correct values I was looking for,
B[0] = 20; B[4] = 60; B[12] = 9.

Hope that helps.
Becky