
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
