
Subject: Re: WHERE - problem
Posted by [JD Smith](#) on Tue, 28 Jan 2003 17:48:12 GMT
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On Tue, 28 Jan 2003 03:22:04 -0700, Thomas Jordi wrote:

> hi there
> i'm not an IDL-guru, but i'm using it for some time. the WHERE function
> is extremely handy and often of great use for me. however, one problem i
> failed to solve. lets state an array(500,500,10)
> array=INDGEN(500,500,10)
>
> so then, the find=WHERE(array[*,* ,1] GT 252000) returns me all the
> needed values.
> but HOW do interact with these.
>
> a=mean(array[find]) doesnt do it right
>
> So I helped myself with
> idiotway=array[*,* ,1]
> find=where(idiotway gt 252000)
> so then the example a=mean(idiotway(find)) does it right.
>
> However, somehow there must be a better way...
>
>
> some help would be appreciated

A few possibilities:

```
IDL> m=mean(array[wh+product((size(array,/DIMENSIONS))[0:1]))] ; v5.6
```

or

```
IDL> s=size(array, /DIMENSIONS)  
IDL> m=mean(array[wh+s[0]*s[1]]) ; < v5.6
```

Nearly equivalent to your idiot way, but much easier on the eye:

```
IDL> m=mean((array[*,* ,1])[wh])
```

The last is probably the best choice, unless you are indexing extremely large arrays and don't want the overhead of creating the plane (in parentheses) separately.

Good luck,

JD
