## Subject: Re: Using where() on slices of data cubes Posted by David Fanning on Tue, 20 Oct 2009 13:03:22 GMT

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## Conor writes:

```
I feel like this should be an easy one, but I've never quite figured it out. Let's say I got a data cube and I want to do something on just a slice of it, say I want to turn certain values in a column into something else:
w = where( cube[1,*,*] It 0 )
It seems like you should be able to do something like this:
cube[1,w] = 1e24
But that doesn't work... Somehow I can't quite figure out the right way to do this.
```

It \*seems\* like there should be a simple way to do this, but if there is, I haven't found it. What would make sense to me is this:

```
(cube[1,*,*])[w] = 1e24
```

But this gives the error message that you can't store into a temporary variable. (The ol' pass by reference/pass by value thing, I suppose.)

I have always resorted to making a subset of the data, like this:

```
sub = cube[1,*,*]
w = where(sub lt 0)
sub[w] = 1e24
cube[1,*,*] = sub
```

Not at all elegant, I admit. :-(

Cheers,

David

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David Fanning, Ph.D.

Fanning Software Consulting, Inc. Coyote's Guide to IDL Programming: http://www.dfanning.com/ Sepore ma de ni thui. ("Perhaps thou speakest truth.")