
Subject: Re: is this a bug in IDL?

Posted by [aramisgm](#) on Tue, 16 Dec 2003 21:17:28 GMT

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I've used index, but I'd forgotten about it. Thanks for the reminder.

Ah, the & means for each iteration do an if-then block, then do the two following statements (as opposed to tying together the three statements as the then part of the if-then block) -- the scope for the & is slightly different than in, say, Java. However, now there is a new problem. The entire array should get zeroed out if the snippet below is what is happening. . . (five minutes and a phone call later) indeed it is! To me this seems to be a non-standard usage of &, but that's what I get for being trained in c and its descendants :) The three statements go into a do-begin-end block, problem solved.

Thank you gentlemen. Enlightenment received.
Aramis Martinez

Wonko@wonkology.org (Alex Schuster) wrote in message
news:<8zysEJaud8B@wonkology.org>...

> aramisgm@hotmail.com (Aramis Martinez) wrote:

>

>> k=0

>> for i=0,8759 do begin

>> x=vbs(2,i)

>> if x gt 0.0 then k=k+1 & x=0 & vbs(2,i)=x

>> endfor

>> print, k

>

> Which is the same as:

>

> k=0

> for i=0,8759 do begin

> x=vbs(2,i)

> if x gt 0.0 then k=k+1

> x=0

> vbs(2,i)=x

> endfor

> print, k

>

>

>> 1) How would you vectorize this? I tried a few things that I could

>> remember from my work this summer, but four months of quantum

>> mechanics wipes a lot from memory :)

>

> This should do:

```
>  
> index = where( vbs[ 2, lindgen( 8760 ) ] gt 0, k )  
> if k gt 0 then vbs[ 2, index ] = 0  
>  
>  
> [...]  
>  
>> Is this a bug? as far as I can tell, the statements are logically  
>> identical since an &'s behavior should never vary, so what in the guts  
>> of IDL would make these statements be different? Is there some rule  
>> kicking in here that's not so obvious but makes this behavior to be  
>> expected? Would parenthesis around the THEN block make these identical  
>> in IDL? The environment is either IDL 6 on Red Hat 9 or IDL 5.1 on  
>> Red Hat 8.1.  
>  
> Using & ist the same as wrting the next statement in another line. You  
> need to use begin and endif statements.  
>  
> Alex
```
