Subject: Re: Cool and Bizzare error in IDL 5.2.1 Posted by R.G. Stockwell on Tue, 20 Jun 2000 07:00:00 GMT

View Forum Message <> Reply to Message

Actually this turned out to be just the reult of calling a function with a keyword being sent in my reference and the same thing being passed as a parameter (doh). Ah, the perils of recursion. It was pretty cool anyway though.

-bob

```
R.G. Stockwell <stockwell@co-ra.comremove> wrote in message
news:0dN35.38$482.32405@den-news1.rmi.net...
> Well, I've spent the last hour or so tracking down an error.
> and finally found the cuplrit. Check out the result of the following
> commands
> IDL> help,current mean
> CURRENT MEAN
                      DOUBLE =
                                       -1.0853418
> IDL> help,newmean
> CURRENT MEAN DOUBLE =
                                       -1.0853418
>
>
> I have two variables, current_mean and newmean. There are no pointers
> used, and the code is very straighforward (just iteratively calculating
the
> mean).
  Note how IDL>help,newmean give the result of current mean, is that weird
or
> what??
> The error is that when newmean was calculated, current mean was being
> modified.
> The code fragment that demonstrates this is:
>
  print,'current mean: ',current_mean
  newmean = (current mean*npoints+newpoint)/(npoints+1)
  print, 'current mean: ',current mean
>
> And the resulting output is:
                   -1.0853418
> current mean:
                   -0.13970473
> current mean:
>
> I'm not sure how I was able to do this, but if it's repeatable, I think I
```

```
> smell
> some obsfucated IDL code in my future!
> better get back to work, I just thought it was cool. If any one can
explain
> this.
> I'd be interested to hear it. But I'm guessing it will be difficult to
> reproduce.
> Cheers,
> bob
>
>
>
>
>
>
>
>
>
```

Subject: Re: Cool and Bizzare error in IDL 5.2.1 Posted by promashkin on Tue, 20 Jun 2000 07:00:00 GMT View Forum Message <> Reply to Message

I have a strong suspicion that the answer is in the rest of the code that we did not get a chance to see. I have never seen IDL alter a variable that it is not supposed to alter. It is likely that current_mean gets passed to a function as a reference and then it may get altered to NEWMEAN inside that function. Certainly, if you enter the code provided on command line, nothing unpredictable happens:

No surprises at all (same IDL 5.2.1). Let us see the rest of the code, the fluke is got to be there. Cheers.

Cilecia

Pavel

"R.G. Stockwell" wrote:

```
>
> Well, I've spent the last hour or so tracking down an error,
> and finally found the cuplrit. Check out the result of the following
> commands
> IDL> help,current_mean
                       DOUBLE =
> CURRENT MEAN
                                       -1.0853418
> IDL> help,newmean
> CURRENT MEAN
                       DOUBLE =
                                       -1.0853418
>
> I have two variables, current_mean and newmean. There are no pointers
> used, and the code is very straighforward (just iteratively calculating the
> mean).
> Note how IDL>help,newmean give the result of current_mean, is that weird or
> what??
>
> The error is that when newmean was calculated, current mean was being
> modified.
> The code fragment that demonstrates this is:
>
   print,'current mean: ',current_mean
   newmean = (current mean*npoints+newpoint)/(npoints+1)
   print,'current mean: ',current_mean
> And the resulting output is:
                   -1.0853418
> current mean:
> current mean:
                   -0.13970473
> I'm not sure how I was able to do this, but if it's repeatable, I think I
> smell
> some obsfucated IDL code in my future!
>
> better get back to work, I just thought it was cool. If any one can explain
> this,
> I'd be interested to hear it. But I'm guessing it will be difficult to
> reproduce.
> Cheers,
```

> bob