
Subject: Re: IDL 8.0 questions

Posted by [Mike Potter](#) on Sun, 25 Jul 2010 18:15:10 GMT

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On Jul 25, 1:20 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> I just did some tests, and I can confirm that this is a bug, it is
> completely reproducible, and it is not limited to Windows. I tried on
> Vista 32 with similar results. In Linux 64, besides the problem as
> reported (the string contents getting changed), IDL crashes. Same on
> command line and Workbench.

>

> This is what I used:

>

> pro test_foreach

> compile_opt IDL2

>

> file_names=(file_search('*.fits'))[0:1]

>

> for i=0,n_elements(file_names)-1 do begin

> qfile = file_names[i]

> help,qfile,i

> qim = readfits(qfile)

> help,qfile

> endfor

>

> foreach qfile, file_names,i do begin

> print,i

> qim = readfits(qfile)

> endforeach

>

> print,file_names

> end

>

> Then it crashes on the first call to readfits() in the foreach loop:

>

> IDL> test_foreach

> QFILE STRING = 'dec18i0001.fits'

> I LONG = 0

> % READFITS: Now reading 256 by 256 array

> QFILE STRING = 'dec18i0001.fits'

> QFILE STRING = 'dec18i0002.fits'

> I LONG = 1

> % READFITS: Now reading 256 by 256 array

> QFILE STRING = 'dec18i0002.fits'

> 0

> % READFITS: ERROR - Unable to locate file ts

> *** glibc detected *** /usr/local/itt/idl/idl80/bin/bin.linux.x86_64/

> idl: double free or corruption (fasttop): 0x0000000001ff7a80 ***

```
>
> Even more strange, if I change the line before that to
>
> print,i,' ',qfile
>
> All goes as it should:
>
> IDL> test_foreach
> QFILE      STRING  = 'dec18i0001.fits'
> I          LONG    =      0
> % READFITS: Now reading 256 by 256 array
> QFILE      STRING  = 'dec18i0001.fits'
> QFILE      STRING  = 'dec18i0002.fits'
> I          LONG    =      1
> % READFITS: Now reading 256 by 256 array
> QFILE      STRING  = 'dec18i0002.fits'
>      0 dec18i0001.fits
> % READFITS: Now reading 256 by 256 array
>      1 dec18i0002.fits
> % READFITS: Now reading 256 by 256 array
> dec18i0001.fits dec18i0002.fits
>
> In the few months I had been using the test releases for IDL 8, I
> never saw something like this. I tested on Tech Preview 3, and found
> it also crashes, though in a different way.
>
> I am going to look into it in more detail, to see if I can tell where
> the value of qfile gets changed. And I am reporting this to ITTVIS.
```

Paulo:

Thanks for the confirmation. You know, I've been trying the things you suggested and in the past hour or so have been unable to get it to misbehave! That is, it's working fine right now. I have no clue as to why. But note that in the line "% READFITS: ERROR - Unable to locate file ts" note that, like in my case, the two characters remaining are the last two in the file name. My files are ".fit" so I was getting "it" as the remaining characters after going to readfits().

Mike Potter
