
Subject: Re: IDL 8.0 questions

Posted by [penteado](#) on Sun, 25 Jul 2010 17:20:26 GMT

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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.
