
Subject: Re: objects, crashes, and negative memory oh my
Posted by [Pete Warner](#) on Fri, 01 Dec 2006 17:31:58 GMT
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Here's a program that crashes me every time. The key part seems to be the "file_search" followed by the "and" statement. Take either out and it doesn't cause me trouble. I'm creating the .txt file because I don't know what to search for on your computers, and file_search needs to find something. I run between 1 and 10 loops before IDL dies on my computer. Tested on 6.1 and 6.3.

```
pro testfailure
```

```
a = 'test_file.txt'
openw, 1, a
close, 1
free_lun, 1

key = 'b'
count = 0
print, 'Starting Memory: ', memory(/current)
while (key ne 'a') do begin
  count++
  b = file_search(a)
  print, 'anystring' and b
  print, 'Memory after iteration ', count, ' ', memory(/current)
  print, 'Hit "a" to exit, anykey to continue'
  key = get_kbrd(1)
endwhile
print, 'ending'

end
```

On Dec 1, 9:42 am, Paolo Grigis <pgri...@astro.phys.ethz.ch> wrote:

```
> Just to be sure there's no hardware problem, you might
> want to do a tough memory test (e.g. memtest86) to see
> if the physical RAM is ok...
>
> Ciao,
> Paolo
>
> Pete Warner wrote:
>> Some more information:
>> I'm running 32 bit IDL 6.3 on Windows 2000 with only 512MB of non
>> imaginary RAM. The file I'm reading and storing data from with this
>> object is only about 2MB, and the Windows Task Manager does not show
>> idlde.exe using unusual amounts of memory.
>
```

```

>> If I step through my obj::destroy routine IDL locks up only after the
>> final END statement or if I try to use /RETALL before the end of the
>> cleanup routine. Once it is locked up I must use Task Manager to end
>> idlde.exe.
>
>> If instead of returning to $MAIN$ I type .reset I get 1 to 3 "The
>> instruction at bla referenced memory at bla. The memory could not be
>> read/written. Click on OK to terminate the program" messages and I'm
>> back to the desktop.
>
>> I'll find out what tech support can do for me here.
>
>> On Dec 1, 8:27 am, "Pete Warner" <warner.p...@yahoo.com> wrote:
>
>>> I guess I've been thinking about asking for an upgrade. Maybe I already
>>> got it. Anybody know if Windows Vista can address 16 exabytes or will I
>>> need Linux for that?
>
>>> On Dec 1, 2:53 am, Paolo Grigis <pgri...@astro.phys.ethz.ch> wrote:
>
>>>> Paolo Grigis wrote:
>
>>>> >Pete Warner wrote:
>
>>>> >>Hopefully one day I'll join the crowd of you helpful people who answer
>>>> >>questions instead of coming up with them, but that day is not today.
>
>>>> >>I've got an object that should hold and organize a large number of
>>>> >>arrays and pointers and arrays of pointers and then clean them up when
>>>> >>I'm done. I know I have enough memory for the data in question because
>>>> >>I can load it without using pointers. I want the objects and pointers
>>>> >>for flexibility and to make the overall program easier to work with.
>
>>>> >>The problem is that I'm crashing IDL. I create the object, and then
>>>> >>destroy it to check for leaks. Using help, /heap_variables I show 0
>>>> >>pointers and objects. Then if I create and destroy it again IDL locks
>>>> >>up or crashes to desktop with some memory errors. I figured there must
>>>> >>be crazy leaking going on but I can't find it.
>
>>>> >>1. Restart computer
>>>> >>2. Load IDL
>>>> >>3. Load project with objects
>>>> >>4. Compile project
>>>> >>5. IDL> print, memory(/l64, /current)
>>>> >>      845185
>>>> >>6. IDL> test = obj_new('mtgv_lodat', 'model.txt',
>>>> >>'c:/rsi/projects/gicvu idl/system models/')
>>>> >>7. IDL> print, memory(/l64, /current)

```

```
>>>> >>          412234
>>>> >>8. IDL> obj_destroy, test
>>>> >>9. IDL> print, memory(/l64, /current)
>>>> >>          -1077816
>
>>>> >Maybe is not negative, but just overflowing for
>>>> >18446744073708473800LL... now that's a nice
>>>> >rig you have, just one megabyte short of 4 exabytes ;- )well, that should have been 16...
>
>>>> >Ciao,
>>>> >Paolo
>
>>>> >>If I repeat the process starting at 5 IDL blows up after a repetition
>>>> >>or two. If anyone has had this problem before and knows a solution I'd
>>>> >>be grateful. I couldn't find a solution searching the board, the IDL
>>>> >>help, or the ITTVIS IDL memory allocation FAQs.
>
>>>> >>On the other hand, if anyone wants to buy a program that uses negative
>>>> >>memory this is your lucky day.
```
