Subject: Memory Leak
Posted by wlandsman on Mon, 27 Jul 2009 22:05:49 GMT
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Today's quiz is to write a short program to make IDL leak memory without using any pointer variables or external calls.

In the program test.pro below, I read a data file containing 0b values into a structure with a length one blank string tag. After each call to test.pro I print the fourth element of the memory() function, which is supposed to give the "maximum amount of dynamic memory used since the last time the MEMORY function was called."

As one can see, the highwater mark for memory usage keeps increasing, even though no variables are being added to the main level. Evidently, memory is leaking during the conversion from 0b to a length one blank string (which gets converted to an empty string).

(No, I am not a masochist doing this for fun -- this memory leak is causing problems with an IDL FITS reader (mrdfits.pro) that I am trying to maintain....)

Cheers, --Wayne

```
pro test
a = {a1:3b,a2:0b,a3:4b}
a = replicate(a,100000)

openw,lun,'test.dat',/get_lun
writeu,lun,a
close,lun
openr,lun,'test.dat'
out = {a1:0b,a2:' ',a3:0b}
out = replicate(out,100000)
readu,lun,out
```