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Subject: Re: Memory allocation problem
Posted by R.G. Stockwell on Wed, 26 Nov 2008 16:58:56 GMT
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<kodark@gmail.com> wrote in message
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news:0b01ac28-0dfe-44f6-8f15-75782d6c2f78@x8g2000yqk.googleg roups.com...
> Hi all,
>
> I am a beginner-level user of IDL. Recently I run into the memory
> allocation problem: 'unable to allocate memory'. I loaded a large
> image (11820*11820, float, about 530M) into an array. Then when I
> tried to create two new arrays of the same size, the program said
> 'unable to allocate memory'.
>
> I have read a lot of articles about this problem on the net, but I
> still cannot solve this problem. My computer runs 32-bit Windows XP
> with 4GB RAM and I have assigned 10GB from hard drive to Virtual
> Memory. The virtual memory looks contiguous in the Disk Defragmenter
> program. I am curious about the following output.
>
> IDL> help,/memory
> heap memory used:
                        681301, max:
                                        681324, gets:
                                                         765,
> frees:
           413
  Then I executed the MemTest program provided by ittvis
>
> % Compiled module: MEMTEST.
> Memory block # 1: 806 Mb (total: 806 Mb)
> Memory block # 2: 390 Mb (total: 1196 Mb)
> Memory block # 3: 214 Mb (total: 1410 Mb)
> Memory block # 4: 143 Mb (total: 1553 Mb)
> Memory block # 5: 66 Mb (total: 1619 Mb)
> Memory block # 6: 59 Mb (total: 1678 Mb)
> Memory block # 7: 56 Mb (total: 1734 Mb)
> Memory block # 8: 40 Mb (total: 1774 Mb)
> Memory block # 9: 27 Mb (total: 1801 Mb)
> Memory block #10: 23 Mb (total: 1824 Mb)
>
  It is obvious that the second largest block is less than 530M.
> Then
> IDL> help,/memory
> heap memory used:
                        685533, max: 1913289245, gets:
                                                           789.
           433
> frees:
  The heap memory max increased from 681324 to 1913289245.
>
> I want to know why the virtual memory is not recognized and used? why
```

- > the heap memory max changed?
- >
- > Thank you.

>

> Kodark

the quick solutions are to switch to linux. Windows only lets you get at 2gb for any one process, and even worse, Windows scatters DLLs throughout memory which makes large contiguous memory blocks (which IDL requires) unlikely. Perhaps try going with a very bare bones windows, with no programs starting up, no virus, firewall, etc (unplug from network maybe).

I had these problems all the time (trying to get 3 1gb arrays), and it was impossible in windows, and flaky on linux. So I moved to a 64b machine.

Cheers, bob

PS try googling through google groups to see all the old messages on this thread.