

---

Subject: Re: Writing a very large file

Posted by [Jim Pendleton, ITT Vi](#) on Fri, 07 Dec 2007 21:47:14 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

"wlandsman" <wlandsman@gmail.com> wrote in message

news:f3c3ac4e-a5c2-4d57-a1f2-d0356d7a0d00@i12g2000prf.google groups.com...

> I am writing a sequence of images to a single very large file on my  
> Linux system. I find that the processing dramatically slows down  
> after the first few images. The simplified code looks like the  
> following:

>  
> pro test  
> ; Display the time required to write a series of image to a single  
> large file  
> im = intarr(4096,4096)  
> t = systime(1)

>  
> close,1 & openw,1,'test.dat'  
> for i=0,20 do begin  
> writeu,1,im  
> print,i,systime(1)-t & t = systime(1)  
> endfor  
>  
> close,1  
> return

>  
>  
> IDL> test  
> 0 0.22054195  
> 1 0.26708603  
> 2 0.35127902  
> 3 0.37285185  
> 4 3.3877730  
> 5 6.1666460  
> 6 6.1697872  
> 7 6.2481630

>  
>  
> So the first four images take ~0.3s each to write, while subsequent  
> images require more than 6 seconds each. I suspect that the slowing  
> down is due to IDL (or the OS) needing to extend the file size. (I  
> checked that it is not a memory usage problem.) So I think  
> things would speed up if I could specify the final file size at the  
> beginning -- perhaps there is a way to do this in Unix? I have  
> experimented with the BUFSIZE and RAWIO keywords to OPENW but so far  
> without any improvement.

>  
> Thanks for any suggestions, --Wayne

Wayne,

The POINT\_LUN procedure can be used to define a file's size at the outset. That is, you can OPENW a file then POINT\_LUN to define the maximum file size without having to write any data to the file first. POINT\_LUN to an offset of 0 to begin writing. See also TRUNCATE\_LUN, and the "Reading and Writing Very Large Files" section of the on-line help.

Jim P.

Jim P.

---