

---

Subject: Re: writing large 3D data file fails  
Posted by [A.R.](#) on Mon, 02 Nov 2009 22:17:23 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Oct 14, 1:57 pm, Mark <mark.h...@gmail.com> wrote:

> On Oct 13, 10:58 pm, Dorthe Wildenschild  
>  
>> Thanks for trying to help, - I really don't know what's wrong, but  
>> instead of working out the kinks of IDL, I may just write the volume  
>> as 3 or 4 smaller sections... - a bit sad though.  
>> Cheers,  
>> Dorthe  
>  
> If that's enough to make you sad, you must be new around these parts.  
> My word, I could tell you stories that could make you weep. I'm green  
> with envy that you have a system on which you could even consider  
> writing a 50 GiB file in one go!  
>  
> WRITEU doesn't add any leading or trailing bytes by default, so you  
> can write it in as many chunks as you like, as long as you get the  
> order right. Just loop over the outer (final) dimension.

Hello,

I had a similar problem that I posted to an earlier discussion:  
[http://groups.google.com/group/comp.lang.idl-pvwave/browse\\_thread/thread/c236bbf7a54085ee/0952d20b84caae00?lnk=gst&q=segmentation+fault#0952d20b84caae00](http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/c236bbf7a54085ee/0952d20b84caae00?lnk=gst&q=segmentation+fault#0952d20b84caae00)

I was also trying to writeu to a volume with larger than  $2^{31}$  elements, during which IDL quit due to a segmentation fault. The best answer I got was that it's just something finnick with IDL, and that I should write a bug report to ITTVIS. As a workaround, I wrote a small piece of code which writes my volume in individual slices to one large file:

```
pro write_bindatxl,fname,volume, nz
close,10
openw,10,fname
for i = 0,(nz-1) do writeu,10,volume[*,* ,i]
close,10
end
```

So, this will work to write your data to one file, but the next issue crops up if you want to re-open it and work with it again. Trying to 'readu' a volume with more than  $2^{31}$  elements also crashes IDL due to a segmentation fault.

If you can figure out how to re-open it, then you'll really make my day! Still can't figure that one out . . .

---