Subject: Re: writing large 3D data file fails
Posted by David Fanning on Tue, 03 Nov 2009 01:51:41 GMT

A.R. writes:

> 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 . . .

If you can get by reading it a slice at a time
(from anywhere in the stack), then the Associated
Variable method is the way to go. Suppose each
"slice" is a 4000 by 5000 floating point array:

```
Openr, lun, 'myfile.dat', /Get_Lun
data = Assoc(lun, FltArr(4000,5000))
```

Now, if you wanted the 35th slice:

```
slice = data[34]
```

When you are done with it, just close it.

```
Free_Lun, lun
```

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")