
Subject: Re: writing large 3D data file fails
Posted by [Nigel Wade](#) on Thu, 08 Oct 2009 11:32:00 GMT
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I can't test your exact array because I don't have sufficient RAM, that array is over 50GB and I only have 32GB.

However, attempting to write a smaller array (fltarr(4008,4008,200), which by my reckoning is about 12GB) causes a segmentation violation. The resulting file in my case is actually empty.

```
IDL> volume=fltarr(4008,4008,200)
IDL> help,/memory
heap memory used: 12852030500, max: 12916286829, gets:    459,
frees:    142
IDL> GET_LUN, lun
IDL> OPENW, lun,'bigfile'
IDL> WRITEU, lun, volume
Segmentation fault
```

```
# ls -l bigfile
-rw-r--r-- 1 root root 0 Oct  8 12:25 bigfile
```

I don't think WRITEU likes very big files. Maybe it's not built with largefile support, and internally uses a 32bit file pointer. I can't see why it would be being a 64bit application, but what else might cause the error?

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Nigel Wade
