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Subject: Trouble writing very large files

Posted by [wlandsman](#) on Thu, 15 Jan 2009 20:39:06 GMT

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Vince Hradil posted a message in September about problems writing large files. I am encountering the same problem, but with a variation. Instead of giving a segmentation fault, IDL returns without writing anything.

```
IDL> print,!version
{ x86_64 linux unix linux 7.0 Oct 25 2007    64    64}
IDL> im = intarr(4096,4096,256)
IDL> openw,1,'test.dat'
IDL> writeu,1,im
IDL> close,1
IDL> $ls -l test.dat
-rw-r--r-- 1 wlandsma shadow 0 2009-01-15 15:22 test.dat
```

If I instead do the same thing with a 4096 x 4096 x 255 array, then IDL does crash with a segmentation fault. My guess is that an internal IDL counter is not properly defined as 64 bit integer, and so is being set to zero in my first case (where subscripts are an exact multiple of two). In the second case it is being set to a negative number and causing IDL to crash.

In any case this seems to be an internal IDL bug, since I should be able to write these arrays on a 64 bit machine. --Wayne

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Subject: Re: Trouble writing very large files

Posted by [Andrew Cool](#) on Fri, 16 Jan 2009 03:35:39 GMT

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On Jan 16, 6:39 am, wlandsman <wlands...@gmail.com> wrote:

```
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> large files. I am encountering the same problem, but with a
> variation. Instead of giving a segmentation fault, IDL returns
> without writing anything.
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> multiple of two). In the second case it is being set to a negative  
> number and causing IDL to crash.  
>  
> In any case this seems to be an internal IDL bug, since I should be  
> able to write these arrays on a 64 bit machine. --Wayne

Wayne,

A similarly interesting response at the command line ;-

IDL Version 6.4, Microsoft Windows (Win32 x86 m32). (c) 2007, ITT  
Visual Information Solutions  
Installation number: 100512.  
Licensed for use by: Surv Systems Div, DSTO

```
IDL> print,4096L*4096L*256L
      0
IDL> print,4096L*4096L*255L
-16777216
```

And that's 32 bit Win.

Andrew

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Subject: Re: Trouble writing very large files  
Posted by [Bringfried Stecklum](#) on Fri, 16 Jan 2009 08:35:16 GMT  
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wlandsman wrote:

> Vince Hradil posted a message in September about problems writing  
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> IDL> close,1  
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> multiple of two). In the second case it is being set to a negative  
> number and causing IDL to crash.  
>  
> In any case this seems to be an internal IDL bug, since I should be  
> able to write these arrays on a 64 bit machine. --Wayne

It seems to be a writeu bug since save works fine

IDL Version 6.4 (linux x86\_64 m64). (c) 2007, ITT Visual Information Solutions  
Installation number: 12207.  
Licensed for use by: TLS Tautenburg  
IDL> hhh=intarr(4096,4096,128)  
IDL> openw,1,'hhh'  
IDL> writeu,1,hhh  
Segmentation fault

2nd attempt

IDL> hhh=intarr(4096,4096,128)  
IDL> save,hhh,file='hhh'  
IDL> exit

Regards,

Bringfried

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