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Subject: Problem with large .txt file

Posted by [aleks.franca@gmail.co](mailto:aleks.franca@gmail.co) on Tue, 31 Jul 2007 16:03:54 GMT

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---

Hy there!

I have a large txt file (6.384KB) with 65000 lines. It's very large.

I need to open it, read every line, replace the spaces for commas, and write the result in an output.txt

The code is ok. The problem is that idl crashes on line 7208. There's a memory problem there.

Is there any way to do for all the lines of the txt file?? I don't know how to deal with memory problems. Sorry!

I'm doing like this

```
:-----CUT HERE-----  
i=0  
line=""  
; Open the text file:  
OPENR, inunit, '60mil_equal.txt', /GET_LUN  
; Open the terminal as a file:  
OPENW, outunit, 'output.txt', /GET_LUN  
;=====
```

```
WHILE ~EOF(inunit) DO BEGIN  
  READF, inunit, line  
  line = STRJOIN(STRSPLIT(line, /EXTRACT), ', ' )  
  PRINTF, outunit, line  
  i =i+1  
ENDWHILE
```

```
FREE_LUN, inunit  
FREE_LUN, outunit
```

```
END  
:-----CUT HERE-----
```

Thank you very much

---

---

Subject: Re: Problem with large .txt file

Posted by [Conor](#) on Tue, 31 Jul 2007 18:06:22 GMT

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On Jul 31, 1:36 pm, Conor <cmanc...@gmail.com> wrote:

> On Jul 31, 1:15 pm, hradilv <hrad...@yahoo.com> wrote:

>

```

>
>
>> On Jul 31, 11:27 am, "Haje Korth" <haje.ko...@nospam.jhuapl.edu>
>> wrote:
>
>>> set i ti i=0l (make it a long)
>
>>> H.
>
>>> <aleks.fra...@gmail.com> wrote in message
>
>>> news:1185897834.196562.301440@57g2000hsv.googlegroups.com...
>
>>>> Hy there!
>>>> I have a large txt file (6.384KB) with 65000 lines. It's very large.
>>>> I need to open it, read every line, replace the spaces for commas, and
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>>>>   PRINTF, outunit, line
>>>>   i =i+1
>>>> ENDWHILE
>
>>>> FREE_LUN, inunit
>>>> FREE_LUN, outunit
>
>>>> END
>>>> :-----CUT HERE-----
>
>>>> Thank you very much

```

>  
>> Or just use sed... Right tool for the right job.  
>  
> I was going to say use perl, but I suppose that's a bit simpler.  
>  
> sed 's/ /,/g' < 60mil\_equal.txt > output.txt  
>  
> viola! Simple and elegant.  
>  
> Of course, considering that your files have a .txt extension, it seems  
> likely that you are on a windows machine, and therefore have no access  
> to sed. In that case, I would recommend learning perl, which can  
> easily be installed on windows. A better option would be to just use  
> linux or mac :)

Also, you could do this same thing in just about any text editor.  
Even Microsoft Word has a find/replace option which would easily do  
this. Notepad might too. I mention this simply because IDL really  
isn't the best language for string parsing/editing. Other than that,  
I'm afraid I'm out of suggestions. I don't see any problems with your  
code.

---

Subject: Re: Problem with large .txt file  
Posted by [Jeff N.](#) on Tue, 31 Jul 2007 18:58:48 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On Jul 31, 12:03 pm, "aleks.fra...@gmail.com" <aleks.fra...@gmail.com>  
wrote:

> Hy there!  
> I have a large txt file (6.384KB) with 65000 lines. It's very large.  
> I need to open it, read every line, replace the spaces for commas, and  
> write the result in an output.txt  
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> know how to deal with memory problems. Sorry!  
>  
> I'm doing like this  
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> :-----CUT HERE-----  
> i=0  
> line=""  
> ; Open the text file:  
> OPENR, inunit, '60mil\_equal.txt', /GET\_LUN  
> ; Open the terminal as a file:

```

> OPENW, outunit, 'output.txt', /GET_LUN
> ;=====
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>   READF, inunit, line
>   line = STRJOIN(STRSPLIT(line, /EXTRACT), ', ')
>   PRINTF, outunit, line
>   i=i+1
> ENDWHILE
>
> FREE_LUN, inunit
> FREE_LUN, outunit
>
> END
> :-----CUT HERE-----
>
> Thank you very much

```

I must be missing something, but I don't see you actually using the variable `i` for anything. All you do is increment it each time around the loop. Unless this isn't the final version of your code and you're going to add functionality that uses that variable, you could take it out.

Jeff

---

Subject: Re: Problem with large .txt file  
 Posted by [aleks.franca@gmail.com](mailto:aleks.franca@gmail.com) on Tue, 31 Jul 2007 19:14:11 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

On 31 jul, 15:58, "Jeff N." <jnett...@utk.edu> wrote:

```

> On Jul 31, 12:03 pm, "aleks.fra...@gmail.com" <aleks.fra...@gmail.com>
> wrote:
>
>
>
>> Hy there!
>> I have a large txt file (6.384KB) with 65000 lines. It's very large.
>> I need to open it, read every line, replace the spaces for commas, and
>> write the result in an output.txt
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>> The code is ok. The problem is that idl crashes on line 7208. There's
>> a memory problem there.
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>> Is there any way to do for all the lines of the txt file?? I don't
>> know how to deal with memory problems. Sorry!
>
>> I'm doing like this

```

```

>
>> :-----CUT HERE-----
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>> line=""
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>> OPENR, inunit, '60mil_equal.txt', /GET_LUN
>> ; Open the terminal as a file:
>> OPENW, outunit, 'output.txt', /GET_LUN
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>> WHILE ~EOF(inunit) DO BEGIN
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>>   line = STRJOIN(STRSPLIT(line, /EXTRACT), ', ')
>>   PRINTF, outunit, line
>>   i=i+1
>> ENDWHILE
>
>> FREE_LUN, inunit
>> FREE_LUN, outunit
>
>> END
>> :-----CUT HERE-----
>
>> Thank you very much
>
> I must be missing something, but I don't see you actually using the
> variable i for anything. All you do is increment it each time around
> the loop. Unless this isn't the final version of your code and you're
> going to add functionality that uses that variable, you could take it
> out.
>
> Jeff

```

the variable i is counting for other functionality.

I've heard about IDL working with blocks. Every time it processes a block, it frees the memory and brings another block to process. Does IDL do that with reading txt large files?

thank you for your helps!

---

Subject: Re: Problem with large .txt file  
 Posted by [Haje Korth](#) on Tue, 31 Jul 2007 19:37:09 GMT  
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---

True, the variable is not the problem. It will give a wrong line count but this is not cause for memeory error. Now I am puzzled. I am reading text files up to 100MB without problems. I am sure bigger ones work too. I fold... H.

"Jeff N." <jnettle1@utk.edu> wrote in message  
news:1185908328.461871.25230@m37g2000prh.googlegroups.com...  
> On Jul 31, 12:03 pm, "aleks.fra...@gmail.com" <aleks.fra...@gmail.com>  
> wrote:  
>> Hy there!  
>> I have a large txt file (6.384KB) with 65000 lines. It's very large.  
>> I need to open it, read every line, replace the spaces for commas, and  
>> write the result in an output.txt  
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>> :-----CUT HERE-----  
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>> OPENR, inunit, '60mil\_equal.txt', /GET\_LUN  
>> ; Open the terminal as a file:  
>> OPENW, outunit, 'output.txt', /GET\_LUN  
>> ;=====

```

>> WHILE ~EOF(inunit) DO BEGIN
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>>   PRINTF, outunit, line
>>   i=i+1
>> ENDWHILE
>>
>> FREE_LUN, inunit
>> FREE_LUN, outunit
>>
>> END
>> :-----CUT HERE-----
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>> Thank you very much
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> I must be missing something, but I don't see you actually using the
> variable i for anything. All you do is increment it each time around
> the loop. Unless this isn't the final version of your code and you're
> going to add functionality that uses that variable, you could take it
> out.
>

```

> Jeff  
>

---

---

Subject: Re: Problem with large .txt file  
Posted by [Bruce Bowler](#) on Tue, 31 Jul 2007 20:16:22 GMT  
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On Tue, 31 Jul 2007 09:03:54 -0700, [aleks.franca@gmail.com](mailto:aleks.franca@gmail.com) wrote:

> Hy there!  
> I have a large txt file (6.384KB) with 65000 lines. It's very large. I  
> need to open it, read every line, replace the spaces for commas, and  
> write the result in an output.txt  
>  
> The code is ok. The problem is that idl crashes on line 7208. There's a  
> memory problem there.  
>

Crashes "how"? What's the error message? Is there anything unusual  
about line 7208, like embedded control characters or something else? (or  
maybe line 7207 or 7209?)

Bruce

---

---

Subject: Re: Problem with large .txt file  
Posted by [aleks.franca@gmail.co](mailto:aleks.franca@gmail.co) on Wed, 01 Aug 2007 02:09:10 GMT  
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---

On 31 jul, 17:16, Bruce Bowler <[bbow...@bigelow.org](mailto:bbow...@bigelow.org)> wrote:

> On Tue, 31 Jul 2007 09:03:54 -0700, [aleks.fra...@gmail.com](mailto:aleks.fra...@gmail.com) wrote:  
>> Hy there!  
>> I have a large txt file (6.384KB) with 65000 lines. It's very large. I  
>> need to open it, read every line, replace the spaces for commas, and  
>> write the result in an output.txt  
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>> The code is ok. The problem is that idl crashes on line 7208. There's a  
>> memory problem there.  
>  
> Crashes "how"? What's the error message? Is there anything unusual  
> about line 7208, like embedded control characters or something else? (or  
> maybe line 7207 or 7209?)  
>  
> Bruce

The error message is that There's not enough space in disk.

The lines 7207, 7208, and 7209 have nothing unusual. They are like this

```
0.0903 0.0762 0.0744 0.1778 0.2024 13.2929 0.2531 0.4266 0.3123
3.6259 -1.4637 -6.1165 0.4098 2.3885 6 2.2416 79
0.0843 0.0701 0.0641 0.1842 0.1728 12.0156 0.1874 0.5139 0.2918
3.2822 -1.3031 -5.5164 0.4836 2.873 6 2.0511 100
0.0948 0.0792 0.0976 0.1681 0.2214 14.5702 0.3253 0.2956 0.3703
3.9688 -1.632 -6.7057 0.2653 1.7221 1 2.3352 13
```

The cells are separate by tabs.

I also used the function `memory()`, but I can't understand it.

I have 1 GB of RAM. It shows like this:

IDL> print, result

```
646311    15200    14871    646311
```

It's weird, I can't see any problems with it.

---

---

Subject: Re: Problem with large .txt file

Posted by [aleks.franca@gmail.com](mailto:aleks.franca@gmail.com) on Wed, 01 Aug 2007 02:17:05 GMT

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---

On 31 jul, 16:37, "Haje Korth" <[haje.ko...@nospam.jhuapl.edu](mailto:haje.ko...@nospam.jhuapl.edu)> wrote:

```
> True, the variable is not the problem. It will give a wrong line count but
> this is not cause for memeory error. Now I am puzzled. I am reading text
> files up to 100MB without problems. I am sure bigger ones work too. I
> fold... H.
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>
```

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> "Jeff N." <jnett...@utk.edu> wrote in message
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>
```

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> news:1185908328.461871.25230@m37g2000prh.googlegroups.com...
```

```
>
```

```
>> On Jul 31, 12:03 pm, "aleks.fra...@gmail.com" <aleks.fra...@gmail.com>
```

```
>> wrote:
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>>> Hy there!
```

```
>>> I have a large txt file (6.384KB) with 65000 lines. It's very large.
```

```
>>> I need to open it, read every line, replace the spaces for commas, and
```

```
>>> write the result in an output.txt
```

```
>
```

```
>>> The code is ok. The problem is that idl crashes on line 7208. There's
```

```
>>> a memory problem there.
```

```
>
```

```
>>> Is there any way to do for all the lines of the txt file?? I don't
```

```
>>> know how to deal with memory problems. Sorry!
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```
>
```

```
>>> I'm doing like this
```



```

>
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>>> line=""
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>>> ; Open the terminal as a file:
>>> OPENW, outunit, 'output.txt', /GET_LUN
>>> ;=====
>>> WHILE ~EOF(inunit) DO BEGIN
>>>   READF, inunit, line
>>>   line = STRJOIN(STRSPLIT(line, /EXTRACT), ', ')
>>>   PRINTF, outunit, line
>>>   i=i+1
>>> ENDWHILE
>
>>> FREE_LUN, inunit
>>> FREE_LUN, outunit
>
>>> END
>>> :-----CUT HERE-----
>
>>> Thank you very much
>
>> I must be missing something, but I don't see you actually using the
>> variable i for anything. All you do is increment it each time around
>> the loop. Unless this isn't the final version of your code and you're
>> going to add functionality that uses that variable, you could take it
>> out.
>
>> Jeff

```

Hy Haje!

I can read the file without a problem. I've just tested it. But it seems that IDL cannot handle Writing the file into another file. Here is where the error shows up.

thank you

---

Subject: Re: Problem with large .txt file

Posted by [Wox](#) on Wed, 01 Aug 2007 07:48:40 GMT

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---

On Wed, 01 Aug 2007 02:09:10 -0000, "aleks.franca@gmail.com" <aleks.franca@gmail.com> wrote:

> The error message is that There's not enough space in disk.

And you hard drive is not full?

---

---

Subject: Re: Problem with large .txt file

Posted by [aleks.franca@gmail.com](mailto:aleks.franca@gmail.com) on Wed, 01 Aug 2007 12:21:47 GMT

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---

On 1 ago, 04:48, Wox <nom...@hotmail.com> wrote:

> On Wed, 01 Aug 2007 02:09:10 -0000, "aleks.fra...@gmail.com"

>

> <aleks.fra...@gmail.com> wrote:

>> The error message is that There's not enough space in disk.

>

> And you hard drive is not full?

hy.

Just now I realized that my routine is in my USB zipdrive, and it's full. I thought I was working in the Hard Disk.

I'm really sorry you all for the inconvenience.

Thanks

---

---

Subject: Re: Problem with large .txt file

Posted by [David Fanning](#) on Wed, 01 Aug 2007 12:42:27 GMT

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---

aleks.franca@gmail.com writes:

> Just now I realized that my routine is in my USB zipdrive, and it's

> full. I thought I was working in the Hard Disk.

> I'm really sorry you all for the inconvenience.

You would get along with my wife. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---

---

Subject: Re: Problem with large .txt file

Posted by [aleks.franca@gmail.co](mailto:aleks.franca@gmail.co) on Wed, 01 Aug 2007 13:04:28 GMT

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On 1 ago, 09:42, David Fanning <n...@dfanning.com> wrote:

> aleks.fra...@gmail.com writes:

>> Just now I realized that my routine is in my USB zipdrive, and it`s

>> full. I thought I was working in the Hard Disk.

>> I`m really sorry you all for the inconvenience.

>

> You would get along with my wife. :-)

>

> Cheers,

>

> David

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

> Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

But at least I didn't have an IDL problem. That's what I was afraid of.

---

---

Subject: Re: Problem with large .txt file

Posted by [David Fanning](#) on Wed, 01 Aug 2007 13:09:35 GMT

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---

aleks.franca@gmail.com writes:

> But at least I didn't have an IDL problem. That's what I was afraid of.

My wife's big concern is that I'm going to try to explain something to her. That's never good for our marriage. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---

---

Subject: Re: Problem with large .txt file

Posted by [Paul Van Delst\[1\]](#) on Wed, 01 Aug 2007 13:28:40 GMT

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David Fanning wrote:

> aleks.franca@gmail.com writes:

>

>> But at least I didn't have an IDL problem. That's what I was afraid of.

>

> My wife's big concern is that I'm going to try to explain

> something to her.

Huh. So it's not just me, then. Good to know.

:o)

cheers,

paulv

--

Paul van Delst

---

Subject: Re: Problem with large .txt file

Posted by [Haje Korth](#) on Wed, 01 Aug 2007 15:38:36 GMT

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---

duh... H.

<aleks.franca@gmail.com> wrote in message

news:1185970907.269552.63730@q75g2000hsh.googlegroups.com...

> On 1 ago, 04:48, Wox <nom...@hotmail.com> wrote:

>> On Wed, 01 Aug 2007 02:09:10 -0000, "aleks.fra...@gmail.com"

>>

>> <aleks.fra...@gmail.com> wrote:

>>> The error message is that There's not enough space in disk.

>>

>> And you hard drive is not full?

>

> hy.

> Just now I realized that my routine is in my USB zipdrive, and it's

> full. I thought I was working in the Hard Disk.

> I'm really sorry you all for the inconvenience.

>

> Thanks

>

---

Subject: Re: Problem with large .txt file

Posted by [Jean H.](#) on Wed, 01 Aug 2007 16:35:57 GMT

Paul van Delst wrote:

> David Fanning wrote:

>> aleks.franca@gmail.com writes:

>>

>>> But at least I didn't have an IDL problem. That's what I was afraid of.

>>

>> My wife's big concern is that I'm going to try to explain

>> something to her.

>

> Huh. So it's not just me, then. Good to know.

>

> :o)

>

> cheers,

>

> paulv

Would it even be a constant for scientific programmers??????

Jean

---

---

Subject: Re: Problem with large .txt file

Posted by [badjelly.witch](#) on Wed, 01 Aug 2007 23:20:46 GMT

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On Aug 1, 5:36 am, Conor <cmanc...@gmail.com> wrote:

> Of course, considering that your files have a .txt extension, it seems

> likely that you are on a windows machine, and therefore have no access

> to sed.

You're just trying to bait me, right?

---