
Subject: Re: I found one thing!!!

Posted by [greg michael](#) on Wed, 15 Nov 2006 10:59:13 GMT

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Hi Kim,

The way to solve a problem like this is one line at a time. When it stops, look at the error message and the values of your variables, and find whatever isn't working as you expected. If you post a question, there's no point showing the part of your program which has never run, and there's no sense making us guess the error message - you do need to show that.

Here the answer is clear - I gave it to you in a previous reply. Try that - then you should get to the next step, which is to split the strings.

regards,
Greg

Subject: Re: I found one thing!!!

Posted by [Braedley](#) on Wed, 15 Nov 2006 14:47:01 GMT

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Your string array should only be of dimensions (28). You'll read each of the 28 lines, and then strsplit them into the data array like so:

```
s_in=strarr(file_lines(filename))
openr, lun, /get_lun, filename
readf, lun, s_in
close, lun
free_lun, lun
length=n_elements(s_in)
temp=strsplit(s_in[0], '|', /extract, count=count)
data=intarr(length, count)
for i=0, length-1 do data[i, *]=fix(strsplit(s_in[i], '|', /extract))
```

This method also keeps the program more flexible. Hard coding values is rarely a good thing.

Braedley

kim20026@gmail.com wrote:

```
> Sorry, everyone!!! I found these data below seem to be one line, but
> they were not!!! They were set to an array with 28 columns * 157842
> rows already...
>
```

```

> Now, the problem can be easier, but I am still a beginner. Please give
> me some comments.
>
> My basic idea was...
>
> 1. Make an array (28, 157842)
> 2. Open and read the data
> 3. Put the data into the array made in 1.
> 4. Slice the array into 3 and print to 3 different files.
>
> So I did this way, but still not working...
> -----
> Pro temp1
>
> ; Main working directory (location of IDL procedures and functions)
> WorkDir      = 'D:\MODIS_Documents\MetData\IDLPractice'
>
> s=intarr(28, 157824L)
> Openr, lun, 'temp1.txt', /get_lun
> Readf, lun, s ; <- IDL still halts right here. (T.T)
> free_lun, lun
>
> data=fix(strsplit(s, '|', /extract))
>
> for i=0L, 157824-1 do begin
>     if i mod 52608L eq 0 then begin
>         close, /all
>         file_no=i / 52608L + 1 ; 1, 2, 3
>         openw, 1, 'out'+string(file_no, format='(I1)')+'.txt'
>
>     endif
>     printf, 1, strjoin(string(data[*], i), format='(I4)'), ' '
>
> endfor
>
> close, /all
> end
>
>
> kim20026@gmail.com wrote:
>> I requested some meteorological data to a governmental institute. To
>> reduce the file size, they sent me this way...
>>
>> 90|2000|1|1|25|25|26|26|26|25|26|28|31|34|36|39|40|38|38|37|
35|33|35|37|34|34|35|29|90|2000|1|2|30|32|29|28|31|33|55|65|
74|68|72|75|71|83|85|77|69|60|51|43|41|34|34|29|90|2000|1|3|

```

```

25|20|12|9|8|5|-2|-3|14|27|31|42|51|54|48|51|37|28|15|11|6|-
12|0|-13|90|2000|1|4|-7|-5|-8|-10|-21|-21|-13|-18|-2|23|36|4
0|50|49|42|37|29|22|9|3|0|0|5|4|90|2000|1|5|1|4|12|10|15|15|
9|6|0|-1|1|3|5|4|4|6|8|8|10|9|9|13|13|17|90|2000|1|6|17|18|2
3|23|24|28|28|27|25|26|45|73|87|90|81|72|58|54|39|19|-2|-11|
-17|-26|90|2000|1|7|-31|-39|-43|-55|-67|-77|-85|-86|-78|-71|
-63|-63|-52|-43|-39|-41|-49|-51|-53|-54|-58|-53|-54|-57|90|2
000|1|8|-57|-52|-49|-48|-45|-39|-36|-30|-25|-18|-11|-8|0|2|1 2|7|-3|-7|-7|-7|-6|-16|-15|-17|
>> ...
>>
>> This is only one line, but contains a matrix of 28 columns * 157824L
>> rows. As you guys may know, Excel can only 65,000 rows approximately,
>> and I need to divide this into three to read this file correctly.
>>
>> I have tried like this so far, but everytime I try, I have the same
>> error message and the program stops.
>>
>> -----
>> Pro temp1
>>
>> ; Main working directory (location of IDL procedures and functions)
>> WorkDir      = 'D:\MODIS_Documents\MetData\IDLPractice'
>>
>> s="
>> Openr, 1, 'temp1.txt'
>> Readf, 1, s
>> print, strlen(s)
>> close, 1
>>
>> data=fix(strsplit(s, '|', /extract))
>> help, data
>> data=reform(data, 28, 157824L) ; <- Execution halts right here
>> everytime!!!
>> print, data[*, 0]
>> print, data[*, 1]
>>
>> for i=0L, 157824-1 do begin
>>     if i mod 52608L eq 0 then begin
>>         close, /all
>>         file_no=i / 52608L + 1 ; 1, 2, 3
>>         openw, 1, 'out'+string(file_no, format='(I1)')+'.txt'
>> ;ex) out1.txt
>>         endif
>>         printf, 1, strjoin(string(data[*, i], format='(I4)'), ", ")
>>
>>     endfor
>> close, /all

```

>> end
>> -----
>>
>> Please let me know if you have any solutions (or suggestions at least.
>> It's urgent!! T.T)

Subject: I made it!!!
Posted by [kim20026](#) on Thu, 16 Nov 2006 01:53:10 GMT
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Good morning everyone.
Thank you very much for your invaluable comments and suggestions. I
finally made it!!! (^.^) but I need to say there was another major
contributor, Jonghyeok Lee, one of my new friends in Seoul.

The latest version of this code is...

pro temp1
file='D:\MODIS_Documents\MetData\IDLPractice\temp.txt'
n=file_lines(file)
allline=strarr(n)
openr, 1, file
readf, 1, allline
close, 1
for i=0L, n-1 do begin
if i mod 52608L eq 0 then begin
close, /all
filew='D:\MODIS_Documents\MetData\IDLPractice\temp'+string(i /
52608L +1, format='(I1)')+'.txt'
openw, 2, filew
endif
oneline=allline[i]
data=fix(strsplit(oneline, '|', /extract))
printf, 2, data, format='(28I5)'
endfor
close, /all
end

If you have any other comments or suggestions, please don't hesitate.
Thanks again. Have a nice day!!!

Harry from Chuncheon, Korea

Braedley wrote:

```
> Your string array should only be of dimensions (28). You'll read each
> of the 28 lines, and then strsplit them into the data array like so:
>
> s_in=strarr(file_lines(filename))
> openr, lun, /get_lun, filename
> readf, lun, s_in
> close, lun
> free_lun, lun
> length=n_elements(s_in)
> temp=strsplit(s_in[0], '|', /extract, count=count)
> data=intarr(length, count)
> for i=0, length-1 do data[i, *]=fix(strsplit(s_in[i], '|', /extract))
>
> This method also keeps the program more flexible. Hard coding values
> is rarely a good thing.
```

```
>
> Braedley
```

```
>
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>> s=intarr(28, 157824L)
>> Openr, lun, 'temp1.txt', /get_lun
>> Readf, lun, s ; <- IDL still halts right here. (T.T)
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```

>> free_lun, lun
>>
>> data=fix(strsplit(s, '|', /extract))
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>> for i=0L, 157824-1 do begin
>>     if i mod 52608L eq 0 then begin
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>>         file_no=i / 52608L + 1 ; 1, 2, 3
>>         openw, 1, 'out'+string(file_no, format='(I1)')+'.txt'

>>     endif
>>     printf, 1, strjoin(string(data[*], i], format='(I4)'), ' ')
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>> endfor
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>> close, /all
>> end
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74|68|72|75|71|83|85|77|69|60|51|43|41|34|34|29|90|2000|1|3|
25|20|12|9|8|5|-2|-3|14|27|31|42|51|54|48|51|37|28|15|11|6|-
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>>> WorkDir      = 'D:\MODIS_Documents\MetData\IDLPractice'
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>>> Readf, 1, s
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>>> data=fix(strsplit(s, '|', /extract))
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>>> data=reform(data, 28, 157824L) ; <- Execution halts right here
>>> everytime!!!
>>> print, data[*, 0]
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>>>     endfor
>>> close, /all
>>> end
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>>> Please let me know if you have any solutions (or suggestions at least.
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