Subject: problem using strsplit
Posted by briana on Fri, 10 Jan 2003 12:38:10 GMT
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I am relatively new to IDL and am probably missing something very
obvious. I am reading in an ascii tab separated file into a string
array. I know how many rows the file will contain but not how many
columns hence the string array.
I then try to use strsplit to separate all the columns but have an
error - it seems that the columns are not seen as separate.
Code and example file below.

Any ideas would be useful,
Thanks
Brian Appleby
Geophysicist
BrianA@Zetica.com


```
pro test_ascii_reader
;setup some variable values to allow easy alteration if needed later
no_of_scans=1000
max_traces=1000

; open and read any ascii file with data/headers on single lines into
; a string array to be split later depending on type of data
OPENR, lun, 'file2.txt', / GET_LUN
rawdata=StrArr(no_of_scans)
Point_Lun, lun, 0
ReadF,lun,rawdata
help,rawdata

split_columns=STRSPLIT(rawdata,' ',/EXTRACT)
help,split_columns
end
```


file2.txt - example data
65408 65408 65408 65408 65408
28800 28800 28800 28800 28800
32896 32896 32896 32896 32896
33152 33152 33152 33152 33152
33152 33152 33152 33152 33152

Subject: Re: problem using strsplit

Posted by meron on Fri, 10 Jan 2003 17:07:27 GMT

In article <c0a05716.0301100438.609f4080@posting.google.com>, briana@zetica.com (Brian)
writes:

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> obvious. I am reading in an ascii tab separated file into a string
> array. I know how many rows the file will contain but not how many
> columns hence the string array.
> I then try to use strsplit to separate all the columns but have an
> error - it seems that the columns are not seen as separate.

You can check out my routine, RASCII. It is available from my library
on the IDL users contributions site.

Mati Meron | "When you argue with a fool,
meron@cars.uchicago.edu | chances are he is doing just the same"

Subject: Re: problem using strsplit
Posted by R.Bauer on Sat, 11 Jan 2003 21:38:35 GMT

Brian wrote:

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> Code and example file below.
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> Any ideas would be useful,
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> Brian Appleby
> Geophysicist
> BrianA@Zetica.com
>

Dear Brian

You can use our file reading routine,
It determines itselfs almost all parameter for file reading of an array
orientaded data file, with or without some comments in the header or at the
end.

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl
_html/dbase/download/read_data_file.tar.gz
idl binary
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/download/read_data_file.sav

for further routine and licensing lease have a look at
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

If you don't like using these routines you can examine the number of columns
by counting the separator.

```
no_of_scans=5
OPENR, lun, 'file2.txt', / GET_LUN
rawdata=StrArr(no_of_scans)
ReadF,lun,rawdata
free_lun,lun

line=strtrim(strcompress(rawdata[0]),2)
; strcompress compresses blanks to one blank
; strim ,2 trailing blanks are removed

ix=where(byte(line) eq 32b,n)
n_columns=n+1


data=make_array(/long,value=-999,no_of_scans,n_columns)
reads,rawdata,data
; reads is doing the thing you like to do by strsplit I believe
```


In principle this is what read_data_file did, there is a bit more
source included to find comments at the beginning or ending so the number of
data lines could be internal calculated and
there is some source to determine or use the type of the numbers,

regards

Reimar

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> 33152 33152   33152   33152   33152
> 33152 33152   33152   33152   33152
```

--
Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
http://www.fz-juelich.de/icg/icg-i/
 === ======
a IDL library at ForschungsZentrum Juelich
 http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

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Subject: Re: problem using strsplit
Posted by briana on Mon, 13 Jan 2003 09:28:16 GMT
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Thanks for the ideas - It is useful see the different ways it can be done.
I now have a working program.

Reimar Bauer <R.Bauer@fz-juelich.de> wrote in message
news:<avq2un$9dn1$1@zam602.zam.kfa-juelich.de>...
> Brian wrote:
>
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