
Subject: Re: read multiple files with varying names
Posted by [Jean H.](#) on Fri, 29 May 2009 14:01:19 GMT
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sophie.hoss@gmail.com wrote:

> On 28 Mai, 17:25, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca>

> wrote:

>> sophie.h...@gmail.com wrote:

>>> s=strarr(cols)

>>> n=0

>>> while (~ eof(file) and (n lt rows_data -1)) do begin

>>> ; Read a line of data

>>> readf,lun,s

>>> ; Store it in data

>>> data[*,n]=s

>>> n=n+1 (*****)

>>> end

>>> data=data[*,0:n-1]

>>> I did the while-loop because I learned that IDL might not read every

>>> line separately. Don't know if it's the most elegant version but at

>>> least it is one.

>>> for the sake of my sanity, any help is appreciated!

>>> cheers,

>>> sophie

>> Sophie,

>> when reading strings, the whole line is read. So when you read in S, you

>> are reading nb_cols LINES.. s[0] = line0, s[1] = line1 etc. You would

>> have to read the whole line then separate the columns.

>>

>> You can do it in one step

>>

>> data = strarr(nbLines)

>> readf,lun,data

>>

>> Jean- Zitierten Text ausblenden -

>>

>> - Zitierten Text anzeigen -

>

> Jean, thanks for that, but I'm still stuck with the same problem no

> matter how I do it. I cut the code short to

>

> CD, 'filepath'

> ci_files = FILE_SEARCH('ci*', COUNT=num_ci_files_found)

>

> for i = 0,(num_ci_files_found-1) do begin

>

> file = ci_files(i)

> rows = File_Lines(file)

```

> OpenR, lun, file, /Get_Lun
> header = StrArr(34)
> ReadF, lun, header
> Point_Lun, -lun, currentLocation
> data = strarr(12, rows-(n_elements(header))) ; i know there's 12
> columns
>         readF, lun, data
>
>         ; from here on I want to extract one column only and
> save this column (radiation data from one station for one month) in a
> file where I later add values from all other stations for this
> specific month, then take the average from all stations over the whole
> month)
>
> --> READF: End of file encountered.
>
> Do I need to include a format statement? I read some posts saying it
> is sometimes (in easy cases) better to forget about any format
> statements...
>
> thanks for your input...
> sophie, going crazy

```

Sophie,

you are still reading a text line, so without the format, the whole line is stored where you believe one column value would be stored. In other words, you are reading 12 * nb_lines LINES, which is obviously too much.

So, if possible, you would have to play with the formats...

For example, reading a simple file that contains:

```

a b c
d e f

```

can be read as:

```

data = strarr(3,2)
readf,lun,data, format = '(3A2)' ;3 times a text (A) of length 2 (the space)

```

but if you do

```
readf,lun,data
```

then you get the same error as you are know. And if you print data[0,0], you get "a b c"

Jean
