

Hello,

I have the following data in an ASCII file (filename.txt):

```
2006-01-31 08:59:26 65.04 22.92 0.207226 0.150028 0.000000 0.057198
2006-01-31 08:59:26 65.22 22.92 0.231006 0.167339 0.000000 0.063667
2006-01-31 08:59:26 65.40 22.92 0.273280 0.201961 0.000000 0.071319
2006-01-31 08:59:26 65.58 22.92 0.255984 0.190420 0.000000 0.065564
2006-01-31 08:59:26 65.76 22.92 0.303038 0.225042 0.000000 0.077996
...
...
...
```

I tried to read this file with the following lines in IDL:

```
; -----
```

```
PRO test.pro
```

```
nlines=FILE_LINES('filename.txt')
file_data=STRARR(nlines)
OPENR,lun,'filename.txt',/GET_LUN
READF,lun,file_data
CLOSE,lun & FREE_LUN,lun
```

```
dataStruct= { yyyy:0, mm:0, dd:0, hr:0, mi:0, sec:0, $
              lon:0.0, lat:0.0, p1:0.0, p2:0.0, p3:0.0, p4:0.0 }
```

```
data=REPLICATE(dataStruct,nlines)
FOR ii=0,(nlines-1) DO BEGIN
```

```
    str=file_data[ii]
```

```
    str_array=STRSPLIT(str,' ',/EXTRACT)
    yyyyymmdd=STRSPLIT(str_array(0),'- ',/EXTRACT)
    hhmmss=STRSPLIT(str_array(1),': ',/EXTRACT)
```

```
    year=FIX(yyyyymmdd(0)) & month=FIX(yyyyymmdd(1)) & day=FIX(yyyyymmdd(2))
    hour=FIX(hhmmss(0)) & minutes=FIX(hhmmss(1)) & seconds=FIX(hhmmss(2))
    long=FLOAT(str_array(2)) & lat=FLOAT(str_array(3))
    par1=FLOAT(str_array(4)) & par2=FLOAT(str_array(5))
    par3=FLOAT(str_array(6)) & par4=FLOAT(str_array(7))
```

```
    data[*,ii]=[year,month,day,hour,minutes,seconds, $
                long,lat,par1,par2,par3,par4]
```

ENDFOR

END

;-----

I get the following error ...

% Conflicting data structures: POLDER_DATA,<FLOAT Array[12]>.

Can anyone suggest me where I am going wrong and what my mistake was? Any solution to my problem?

Thanks in advance ...

Subject: Re: Error using data structures while reading ASCII file with different data types

Posted by [Matthew Argall](#) on Mon, 03 Feb 2014 17:21:35 GMT

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You have an array of data structures, so you need to pass in a structure. Right now you are passing an array. Instead of this:

```
data[* ,ii]=[year,month,day,hour,minutes,seconds, $
            long,lat,par1,par2,par3,par4]
```

try:

```
data[ii].year = year
data[ii].month = month
data[ii].day = day
...
...
```

Or look at the Struct_Assign procedure

http://exelisvis.com/docs/STRUCT_ASSIGN.html

Subject: Re: Error using data structures while reading ASCII file with different data types

Posted by [David Fanning](#) on Mon, 03 Feb 2014 17:41:47 GMT

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Madhavan Bomidi writes:

> Can anyone suggest me where I am going wrong and what my mistake was? Any solution to my problem?

Try doing a .reset and running your program again. I think IDL is just confused. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

Subject: Re: Error using data structures while reading ASCII file with different data types

Posted by [atmospheric physics](#) on Tue, 04 Feb 2014 10:12:25 GMT

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Thanks Matthew ...This works!!!

Subject: Re: Error using data structures while reading ASCII file with different data types

Posted by [Matthew Argall](#) on Tue, 04 Feb 2014 14:07:43 GMT

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On Tuesday, February 4, 2014 5:12:25 AM UTC-5, Madhavan Bomidi wrote:

> Thanks Matthew ...This works!!!

You are welcome! After thinking a little more, you could also use a structure, similar to the original:

```
data[iii] = { YYYY:year, MM:month, DD:day, HR:hour, MI:minutes, SEC:seconds, $  
            LON:long, LAT:lat, P1:par1, P2:par2, P3:par3, P4:par4 }
```

By using square brackets, you created a numeric array and forced all of your numbers to be floats. An array of floats cannot fit into an array of structures. You can, however, use curly brackets to create a structure.

Subject: Re: Error using data structures while reading ASCII file with different data types

Posted by [atmospheric physics](#) on Wed, 05 Feb 2014 09:04:55 GMT

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It's been a great learning experience on data structures. This also work fine ... Matthew!
