
Subject: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 15:41:30 GMT

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Hello Everyone..

I have 15 simple ASCII files, which have to be read and the details of it are to be stored in a structure called ROI. The fields of the structure are,

NumROI-vector

Name-String

Color- 3 element vector

NumPoints-integer

Records-integer

Points- Two dimensional vector.

I tried reading them all in a loop by using,

```
FOR i=1,15 DO BEGIN
  filename=[str,STRTRIM(i,2),ext]
  file=[filelocation,filename]
  Trial_ROI_Read,file
```

In the procedure, I tried doing this,

```
PRO Trial_ROI_Read, file
```

```
  p =MAKE_ARRAY(5,198,value=1)
  ROIs = CREATE_STRUCT('NumROI',[1],'Name','a','Color','1,1,1','NumPo
ints',[1],'Records',[1],'Points',p[*,*])
  OPENR, lun1,file, /GET_LUN
  header = STRARR(12)
  READF, lun1, header
  ROIs.NumROI=STRMID(header(3),18)
  ROIs.Name=STRMID(header(9),12)
  ROIs.NumPoints=STRMID(header(11),13)
  ROIs.Color=STRMID(header(10),17)
```

```
  points = [id , x, y, lat, lon]
  WHILE ~EOF(lun1) DO BEGIN
```

```
    READF, lun1, id, x, y, lat, lon
    pt = [id,x,y,lat,lon]
    ;print, pt
    points = [points , pt]
```

```
  ENDWHILE
```

```
points= REFORM(points , [ 5 , 198 ])
```

But I am not able to open the file and the following error pops up:

OPENR: Expression must be a scalar or 1 element array in this context: FILENAME.

Is there any efficient way to do this..??Please do help me out..I am not well versed with IDL.

Subject: Re: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 15:44:08 GMT

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On Monday, 29 June 2015 11:41:32 UTC-4, Priyadarsini Sivaraj wrote:

> Hello Everyone..

>

> I have 15 simple ASCII files, which have to be read and the details of it are to be stored in a structure called ROI. The fields of the structure are,

> NumROI-vector

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>

```
>
>  points = [id , x, y, lat, lon]
>  WHILE ~EOF(lun1) DO BEGIN
>
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>    pt = [id,x,y,lat,lon]
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>
>  ENDWHILE
>
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>
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>
> Is there any efficient way to do this..??Please do help me out..I am not well versed with IDL.
```

Sry..The subject is OPENR: Expression must be a scalar or 1 element array in this context: FILENAME.

Subject: Re: READF: Input conversion error.
Posted by [David Fanning](#) on Mon, 29 Jun 2015 15:49:57 GMT
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Priyadarsini Sivaraj writes:

> Sry..The subject is OPENR: Expression must be a scalar or 1 element array in this context: FILENAME.

Two things are wrong. Arrays in IDL are zero-based, so array indices go from 0 to n-1, not from 1 to n, as you have it here. And, string concatenation happens with a plus sign. You have:

```
file=[filelocation,filename]
```

Making "file" a two-element array (when it should be a scalar). You probably want something like this:

```
file = filelocation + filename
```

Or, perhaps this:

```
file = filelocaton + PathSep() + filename
```

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: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 15:58:45 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Monday, 29 June 2015 11:49:58 UTC-4, David Fanning wrote:

> Priyadarsini Sivaraj writes:

>

>> Sry..The subject is OPENR: Expression must be a scalar or 1 element array in this context:
FILENAME.

>

> Two things are wrong. Arrays in IDL are zero-based, so array indices go

> from 0 to n-1, not from 1 to n, as you have it here. And, string

> concatenation happens with a plus sign. You have:

>

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> Or, perhaps this:

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> file = filelocaton + PathSep() + filename

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> Cheers,

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> David

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

Thank you so much sir!

But another error pops out saying,

READF: Input conversion error. Unit: 105,

How can I handle this..?

Subject: Re: READF: Input conversion error.
Posted by [David Fanning](#) on Mon, 29 Jun 2015 16:15:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Priyadarsini Sivaraj writes:

- > Thank you so much sir!
- > But another error pops out saying,
- > READF: Input conversion error. Unit: 105,
- > How can I handle this..?

Without you giving us information about where errors are occurring in your program, we can only guess. Normally, errors like this occur when you tell IDL to read a number is there is only a string there, or visa versa.

Find the line that is causing you the error (it is in your error message), then stop the code there and examine what is in the file at that location and what you are trying to read (the HELP command will be useful to you). You are making assumptions about what is happening that aren't true. Make sure all your data types are matching. :-)

Cheers,

David

--

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Subject: Re: READF: Input conversion error.
Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 16:22:54 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Monday, 29 June 2015 12:15:02 UTC-4, David Fanning wrote:

- > Priyadarsini Sivaraj writes:
- >
- >> Thank you so much sir!
- >> But another error pops out saying,
- >> READF: Input conversion error. Unit: 105,
- >> How can I handle this..?
- >
- > Without you giving us information about where errors are occurring in
- > your program, we can only guess. Normally, errors like this occur when
- > you tell IDL to read a number is there is only a string there, or visa
- > versa.

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> Find the line that is causing you the error (it is in your error
> message), then stop the code there and examine what is in the file at
> that location and what you are trying to read (the HELP command will be
> useful to you). You are making assumptions about what is happening that
> aren't true. Make sure all your data types are matching. :-)
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> Cheers,
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> David Fanning, Ph.D.
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There are two READF statements in my code. This error occurs at the line:
READF, lun1, id, x, y, lat, lon
Here, I try to read the text into variables namely: id, x, y, lat, lon.
Is there anything that I can do to rectify this error..?

Subject: Re: READF: Input conversion error.
Posted by [David Fanning](#) on Mon, 29 Jun 2015 16:28:04 GMT
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Priyadarsini Sivaraj writes:

> There are two READF statements in my code. This error occurs at the
line:
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> Here, I try to read the text into variables namely: id, x, y, lat, lon.
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Yes, follow my suggestions and let us know what happens. :-)

Cheers,

David

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

Subject: Re: READF: Input conversion error.

Posted by [David Fanning](#) on Mon, 29 Jun 2015 16:32:29 GMT

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David Fanning writes:

> Yes, follow my suggestions and let us know what happens. :-)

Here is another hint. Open one of your data files up in a text editor.

What line do you suppose you are trying to read when the error occurs?

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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Subject: Re: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 17:36:37 GMT

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On Monday, 29 June 2015 11:41:32 UTC-4, Priyadarsini Sivaraj wrote:

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> I have 15 simple ASCII files, which have to be read and the details of it are to be stored in a structure called ROI. The fields of the structure are,

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> ROIs = CREATE_STRUCT('NumROI',[1],'Name','a','Color','1,1,1','NumPo
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>
>
> points = [id , x, y, lat, lon]
> WHILE ~EOF(lun1) DO BEGIN
>
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>
> ENDWHILE
>
> points= REFORM(points , [ 5 , 198 ])
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> OPENR: Expression must be a scalar or 1 element array in this context: FILENAME.
>
> Is there any efficient way to do this..??Please do help me out..I am not well versed with IDL.
This is my data file:

```

```

;2013_IEEE_GRSS_DF_Contest_Samples_TR

```

```

; Number of ROIs: 15
; File Dimension: 1905 x 349
; X=1 , Y=1 -> Upper-Left Corner
; X=1905, Y=349 -> Lower-Right Corner

```

```

; ROI name: grass_healthy
; ROI rgb value: {0, 205, 0}
; ROI npts: 198
; ID   X   Y       Lat       Lon
  1  769   7 29.724995542787 -95.349772592660
  2  768   7 29.724995084106 -95.349798420654
  3  772   7 29.724996918802 -95.349695108676

```

4 771 7 29.724996460135 -95.349720936671

1 769 7 29.724995542787 -95.349772592660- This is the line where error occurs.

Subject: Re: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 17:40:12 GMT

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On Monday, 29 June 2015 13:36:40 UTC-4, Priyadarsini Sivaraj wrote:

> On Monday, 29 June 2015 11:41:32 UTC-4, Priyadarsini Sivaraj wrote:

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>>

>>

>> points = [id , x, y, lat, lon]

>> WHILE ~EOF(lun1) DO BEGIN

```

>>
>> READF, lun1, id, x, y, lat, lon
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>> ENDWHILE
>>
>> points= REFORM(points , [ 5 , 198 ])
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>
>
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>
>
> ; Number of ROIs: 15
> ; File Dimension: 1905 x 349
> ; X=1 , Y=1 -> Upper-Left Corner
> ; X=1905, Y=349 -> Lower-Right Corner
>
>
> ; ROI name: grass_healthy
> ; ROI rgb value: {0, 205, 0}
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>   3  772   7 29.724996918802 -95.349695108676
>   4  771   7 29.724996460135 -95.349720936671
>
> 1  769   7 29.724995542787 -95.349772592660- This is the line where error occurs.

```

I have to read these values into separate variables namely, lun1, id, x, y, lat, lon. Earlier I had used a READF statement as follows:

```
READF, lun1, header
```

This is done to separate out the header and store the information present in it separately.

Subject: Re: READF: Input conversion error.

Posted by [David Fanning](#) on Mon, 29 Jun 2015 17:49:11 GMT

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Priyadarsini Sivaraj writes:

> I have to read these values into separate variables namely, lun1, id, x, y, lat, lon. Earlier I had used a READF statement as follows:

> READF, lun1, header

> This is done to separate out the header and store the information present in it separately.

Why don't you put a breakpoint in your code at the line that is causing you trouble. Instead of using the READF statement that is causing the error, just read that line of the data file. Something like this:

```
line = ""  
ReadF, lun1, line
```

Print it out:

```
Print, line
```

Is that the line you are trying to read into the variables id, x, y, lat, and lon?

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: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 18:00:04 GMT

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On Monday, 29 June 2015 13:49:13 UTC-4, David Fanning wrote:

> Priyadarsini Sivaraj writes:

>

>> I have to read these values into separate variables namely, lun1, id, x, y, lat, lon. Earlier I had used a READF statement as follows:

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>
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> Cheers,
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> David
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> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")

This is the output for the print statement.

ID	X	Y	Lat	Lon
----	---	---	-----	-----

Yes, I understand the fault. Is there any way that I can skip this line..?

Subject: Re: READF: Input conversion error.

Posted by [David Fanning](#) on Mon, 29 Jun 2015 18:05:22 GMT

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Priyadarsini Sivaraj writes:

>
> This is the output for the print statement.
> ID X Y Lat Lon
>
> Yes, I understand the fault. Is there any way that I can skip this line..?

Well, let me put it this way: you skipped the first 12 lines successfully. :-)

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: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Mon, 29 Jun 2015 18:26:32 GMT

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On Monday, 29 June 2015 14:05:23 UTC-4, David Fanning wrote:

> Priyadarsini Sivaraj writes:

>

>>

>> This is the output for the print statement.

>> ID X Y Lat Lon

>>

>> Yes, I understand the fault. Is there any way that I can skip this line..?

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> Well, let me put it this way: you skipped the first 12 lines

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> Cheers,

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

Oh well.. That is the trick..!!! Thank you sir..!!1

Subject: Re: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Tue, 07 Jul 2015 15:28:04 GMT

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On Monday, 29 June 2015 14:26:34 UTC-4, Priyadarsini Sivaraj wrote:

> On Monday, 29 June 2015 14:05:23 UTC-4, David Fanning wrote:

>> Priyadarsini Sivaraj writes:

>>

>>>

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>>> ID X Y Lat Lon

>>>

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```
>> David Fanning, Ph.D.
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> Oh well..That is the trick..!!!Thank you sir..!!1
```

Hello everyone..

I have a problem again with the code above..All of a sudden, I keep getting this error,
'READF: End of file encountered.'

At the line,

```
'READF, lun1, id, x, y, lat, lon'
```

in the loop,

```
WHILE ~EOF(lun1) DO BEGIN
  READF, lun1, id, x, y, lat, lon
  pt = [id,x,y,lat,lon]
  points = [points , pt]
ENDWHILE
```

What can be done to overcome this error?Please do help me.

Subject: Re: READF: Input conversion error.

Posted by [David Fanning](#) on Tue, 07 Jul 2015 15:39:49 GMT

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Priyadarsini Sivaraj writes:

```
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I would say make sure the file contains what you *think* it contains.
You are probably mistaken. :-)

Cheers,

David

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Subject: Re: READF: Input conversion error.
Posted by [Priyadarsini Sivaraj](#) on Tue, 07 Jul 2015 15:53:53 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Tuesday, 7 July 2015 11:39:52 UTC-4, David Fanning wrote:

> Priyadarsini Sivaraj writes:

>

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>>

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Yes. My file does contain all the necessary information. The exact code snippet has worked earlier. Now, I am not able to deduce what could be the fault. :-(

Subject: Re: READF: Input conversion error.

Posted by [David Fanning](#) on Tue, 07 Jul 2015 15:57:12 GMT

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Priyadarsini Sivaraj writes:

> Yes. My file does contain all the necessary information. The exact code snippet has worked earlier. Now, I am not able to deduce what could be the fault. :-(

I'm not convinced. :-)

Cheers,

David

--

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

Subject: Re: READF: Input conversion error.

Posted by [Paul Van Delst\[1\]](#) on Tue, 07 Jul 2015 16:43:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hello,

On 07/07/15 11:53, Priyadarsini Sivaraj wrote:

> On Tuesday, 7 July 2015 11:39:52 UTC-4, David Fanning wrote:

>> Priyadarsini Sivaraj writes:

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>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
>> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
>
> Yes.My file does contain all the necessary information. The exact
> codesnippet has worked earlier.Now, I am not able to deduce what could be
> the fault. :-(-

```

If the code worked before then the only other thing that has changed is the file itself, no?

The error message you are getting is quite clear - you're trying to read past the end of the file.

You could try looking at using the ON_ERROR (or setting up an exception handler with CATCH) command to print out the values of id, x, y, lat, and lon *after* the error has occurred to see if they are what they should be.

Also, you could print out the values after they are read successfully, too. It might be a lot of output to screen, but it can't hurt while you're debugging.

cheers,

paulv

Subject: Re: READF: Input conversion error.
 Posted by [David Fanning](#) on Tue, 07 Jul 2015 17:03:03 GMT
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Priyadarsini Sivaraj writes:

> Yes.My file does contain all the necessary information. The exact code snippet has worked earlier.Now, I am not able to deduce what could be the fault. :-(

Is there possibly an extra blank line at the end of this particular file?

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: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Wed, 08 Jul 2015 13:07:10 GMT

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On Tuesday, 7 July 2015 13:03:05 UTC-4, David Fanning wrote:

> Priyadarsini Sivaraj writes:

>

>> Yes.My file does contain all the necessary information. The exact code snippet has worked earlier.Now, I am not able to deduce what could be the fault. :-(

>

> Is there possibly an extra blank line at the end of this particular file?

>

> 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.")

Oh yes sir. There was extra space and now its working..Thanks a million sir:-)

Subject: Re: READF: Input conversion error.

Posted by [Priyadarsini Sivaraj](#) on Wed, 08 Jul 2015 13:08:41 GMT

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On Tuesday, 7 July 2015 12:43:43 UTC-4, Paul van Delst wrote:

> Hello,

>

> On 07/07/15 11:53, Priyadarsini Sivaraj wrote:

>> On Tuesday, 7 July 2015 11:39:52 UTC-4, David Fanning wrote:

>>> Priyadarsini Sivaraj writes:

>>>>

>>>> I have a problem again with the code above..All of a sudden, I keep getting this error,

>>>> 'READF: End of file encountered.'

>>>>

>>>> At the line,

>>>>

>>>> 'READF, lun1, id, x, y, lat, lon'

>>>>

>>>> in the loop,

>>>>

>>>> WHILE ~EOF(lun1) DO BEGIN

>>>> READF, lun1, id, x, y, lat, lon

>>>> pt = [id,x,y,lat,lon]

>>>> points = [points , pt]

>>>> ENDWHILE

>>>>

>>>> What can be done to overcome this error?Please do help me.

>>>

>>> I would say make sure the file contains what you *think* it contains.

>>> You are probably mistaken. :-)

>>>

>>> 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.")

>>>

>> Yes.My file does contain all the necessary information. The exact

>> codesnippet has worked earlier.Now, I am not able to deduce what could be

>> the fault. :-)

>>

> If the code worked before then the only other thing that has changed is

> the file itself, no?

>

> The error message you are getting is quite clear - you're trying to read

> past the end of the file.

>

> You could try looking at using the ON_ERROR (or setting up an exception

> handler with CATCH) command to print out the values of id, x, y, lat,

> and I on *after* the error has occurred to see if they are what they
> should be.
>
> Also, you could print out the values after they are read successfully,
> too. It might be a lot of output to screen, but it can't hurt while
> you're debugging.
>
> cheers,
>
> paulv

Yes. The new file had extra space at the end. I failed to notice it. Now it's working. Thank you..
