
Subject: Re: "Variable undefined" error in LOADCT?
Posted by [David Fanning](#) on Thu, 17 Jul 2008 02:58:38 GMT
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Ed Hyer writes:

> This one is interesting. Basically, I'm running a batch graphics
> routine making a bunch of plots, and periodically LOADCT gets called,
> in this form:
>
> LOADCT,39,/silent
>
> Now, lately this routine will run for a while (several plots) and then
> break, with the error:
>
> % Variable is undefined: FILENAME.
> % Error occurred at: LOADCT 180
>
> Here is the relevant code from loadct.pro:
>
> if (n_elements(file) GT 0) then filename = file \$
> else filename = filepath('colors1.tbl', subdir=['resource', 'colors'])
> openr,lun, filename, /block
>
> Has anyone ever seen this error?

Wow. Are you sure you have the right LOADCT call?
It is not being called in some other program, is it?
Sometimes a variable like "file" or "filename" will
change unexpectedly in a program. Especially in a
long batch program.

Cheers,

David

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

Subject: Re: "Variable undefined" error in LOADCT?
Posted by [Vince Hradil](#) on Thu, 17 Jul 2008 13:26:40 GMT
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On Jul 16, 7:20 pm, Ed Hyer <ejh...@gmail.com> wrote:

> Hi IDL Wizards,
>
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So what do you get from filepath()?

```
IDL> print, filepath('colors1.tbl', subdir=['resource', 'colors'])  
% Compiled module: FILEPATH.  
% Compiled module: PATH_SEP.  
C:\Program Files\ITT\IDL70\resource\colors\colors1.tbl
```

Installation problem?

Subject: Re: "Variable undefined" error in LOADCT?
Posted by [MariIncandenza](#) on Fri, 18 Jul 2008 00:47:00 GMT
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OK. SHORT ANSWER: Ran out of LUNs. Somewhere one of my routines isn't cleaning up after itself.

LONG ANSWER: The LOADCT routine uses error redirection to spew a generic error message on IO errors. Here is the code for this redirection:

```
on_ioerror, bad  
<...>  
bad:  
  message, /CONTINUE, 'Error reading file: ' + filename + ', ' + !  
error_state.msg
```

Now, LOADCT wants to read a file with the color table, and that error is intended to tell you if the color table you want is missing. But before the FILENAME is even set by LOAD_CT, it runs GET_LUN to assign an LUN to read the file. When that command fails, it goes to 'bad' and then it croaks because FILENAME isn't defined.

--Edward H.
