
Subject: (Beginner) issue setting variables using ENVI_FILE_QUERY

Posted by [Simon Mitchell](#) on Wed, 23 Oct 2013 10:05:40 GMT

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Hello All,

I am having an issue when using ENVI_FILE_QUERY to set a variable containing the number of samples and number of lines from an opened image. This is possibly a very simple mistake that I am making, but I cannot see where I am going wrong (I am new to IDL, but having to update old existing code).

My code loops through a directory and opens .TIF images, to perform processing on.

PRO CALL_HOTSPOT

COMMON PARAM, ns, nl, ifname, ofname, w, yd1, iyd, ib, yy

COMMON NAMES, opendir

COMMON LOOP, count_str

;Scan the tif_output directory for all files

tifdir = opendir + 'Tif_Output\'

CD, tifdir

tif_files = FILE_SEARCH('*.*tif', COUNT = numfiles)

counter = 0

WHILE (counter LT numfiles) DO BEGIN

count_str = STRTRIM(STRING(counter), 2)

ifname = tif_files(counter)

OPENR, lun_tif, ifname, /GET_LUN

;determine the number of samples and lines

ENVI_FILE_QUERY, lun_tif, NS=ns, NL=nl

print, ns

; Call the TET algorithm

TET_HOTSPOT_IDL_MAIN_SIMULATION_SM

CLOSE, lun_tif

FREE_LUN, lun_tif

```
counter = counter + 1
```

```
ENDWHILE
```

```
END
```

The error that I am getting is:

% PRINT: Variable is undefined: NS (PARAM).

Would anyone be able to help me with this?

Thanks in advance

Simon

Subject: Re: (Beginner) issue setting variables using ENVI_FILE_QUERY

Posted by [David Fanning](#) on Wed, 23 Oct 2013 13:28:45 GMT

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Simon Mitchell writes:

> I am having an issue when using ENVI_FILE_QUERY to set a variable containing the number of samples and number of lines from an opened image. This is possibly a very simple mistake that I am making, but I cannot see where I am going wrong (I am new to IDL, but having to update old existing code).

> ;determine the number of samples and lines

>

> ENVI_FILE_QUERY, lun_tif, NS=ns, NL=nl

>

> The error that I am getting is:

> % PRINT: Variable is undefined: NS (PARAM).

>

> Would anyone be able to help me with this?

Instead of using ENVI_FILE_QUERY here, you want to use QUERY_TIFF:

```
void = Query_Tiff(ifname, fileInfo)
```

```
dims = fileInfo.dimensions
```

```
ns = dims[0]
```

```
nl = dims[1]
```

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: (Beginner) issue setting variables using ENVI_FILE_QUERY

Posted by [Simon Mitchell](#) on Wed, 23 Oct 2013 14:21:16 GMT

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On Wednesday, 23 October 2013 15:28:45 UTC+2, David Fanning wrote:

> Simon Mitchell writes:

>

>

>

>> I am having an issue when using ENVI_FILE_QUERY to set a variable

>

> containing the number of samples and number of lines from an opened

>

> image. This is possibly a very simple mistake that I am making, but I

>

> cannot see where I am going wrong (I am new to IDL, but having to update

>

> old existing code).

>

>

>

>> ;determine the number of samples and lines

>

>>

>

>> ENVI_FILE_QUERY, lun_tif, NS=ns, NL=nl

>

>>

>

>> The error that I am getting is:

>

>> % PRINT: Variable is undefined: NS (PARAM).

>

>>

>

>> Would anyone be able to help me with this?

>

>

>

> Instead of using ENVI_FILE_QUERY here, you want to use QUERY_TIFF:

>

>
>
> void = Query_Tiff(ifname, fileInfo)
>
> dims = fileInfo.dimensions
>
> ns = dims[0]
>
> nl = dims[1]
>
>
>
> 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.")

Hello David,

Thank you for your help.
I used your example code, but I get another error.

% Expression must be a structure in this context: FILEINFO.
With the "dims = fileInfo.dimensions" highlighted.

Would you please be able to tell me what this means?

Regards

Simon

Subject: Re: (Beginner) issue setting variables using ENVI_FILE_QUERY
Posted by [David Fanning](#) on Wed, 23 Oct 2013 14:42:47 GMT
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Simon Mitchell writes:

> Thank you for your help.
> I used your example code, but I get another error.
>
> % Expression must be a structure in this context: FILEINFO.
> With the "dims = fileInfo.dimensions" highlighted.
>
> Would you please be able to tell me what this means?

It probably means that this isn't a TIFF file that you are trying to read. Who knows why? Try this code:

```
isTiff = Query_Tiff(ifname, fileInfo)
IF isTiff THEN BEGIN
    dims = fileInfo.dimensions
    ns = dims[0]
    nl = dims[1]
ENDIF ELSE BEGIN
    Print, 'Problem file: ', ifname
    Continue
ENDELSE
```

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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Subject: Re: (Beginner) issue setting variables using ENVI_FILE_QUERY

Posted by [Josh Sixsmith](#) on Fri, 25 Oct 2013 12:04:58 GMT

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Seeing as you are still trying to use ENVI_FILE_QUERY, i suggest you ditch the call to openr, which is meant for access to a file on disk. ENVI_FILE_QUERY uses an fid to track files, and this is what you need to pass to ENVI_FILE_QUERY, not the file allocation unit.

If you want ENVI to open the file and then you can pass around the fid to all sorts of ENVI_DO_IT routines, then use ENVI_OPEN_DATA_FILE with the /TIFF keyword set for ENVI to automatically open the TIFF file. ENVI will internally keep track of the fid and you just pass around the fid to all sorts of ENVI related functions and procedures.

Cheers

Josh
