Subject: Command line arguments
Posted by Mr. No Address on Fri, 11 Feb 2005 20:27:29 GMT
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Way back in the day I posted a very similar question. Someone gave me a solution using environment variables that has worked fine all this time, but now I'm updating things and I'm seeking a cleaner solution. Here we go...

I have a Perl program that I compile and run an IDL program from. I'm now looping through several hundred times and it seems wasteful to compile the IDL program every loop.

```
# The relevant Perl code...
$ENV{"file"}="$filepath";
open(IDL, "|/usr/local/bin/idl") || die "Can't open IDL: $!";
print IDL ".Compile mentor \n";
print IDL "mentor \n";
close IDL;

# The relevant IDL code...
PRO mentor
file=GETENV('file')
```

I would like to compile the program once outside the loop and then pass the file using an argument instead grabbing the file from an environment variable. Can I do something like this?

print IDL "mentor, \$filepath\n";

I found a link with google that describes what I want to do. Judging from the errors I'm getting I'd say I'm close, but as with most programming errors, close still doesn't work. If this can be done, I'm guessing I need to add something to my IDL code. I hope the link below works. If not, google "passing args idl" select groups and select the fourth link down "IDL batch mode: Command line args?"

http://groups-beta.google.com/group/comp.lang.idl-pvwave/bro wse_thread/47c013740c2cc376/627e5899522d54e8?q=passin g+args+idl&_done=%2Fgroups%3Fq%3Dpassing+args+idl%26hl%3 Den%26lr%3D%26tab%3Dng%26ie%3DUTF-8%26sa%3DN%26&_doneTit le=Back+to+Search&&d#627e5899522d54e8

Subject: Re: Command line arguments
Posted by David Fanning on Mon, 21 Feb 2005 20:20:58 GMT
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JD Smith writes:

- > You'd be surprised how many people I know compile their routines by
- > hand, not once, but *twice*, just for good measure. This is what a
- > lifetime of IRAF can do to a person.

Oh, I'm pretty much incapable of being surprised about things like this. This is one of the reasons I have to attend that 12-step program for cynics on Tuesday nights. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: command line arguments
Posted by Spon on Mon, 29 Sep 2008 16:41:04 GMT
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On Sep 29, 5:01 pm, xiao < littledd...@gmail.com > wrote:

- > HI~ guys, is these lines right? Why I cannot open the file based on
- > the following errors. I know the file is there :(Thank you
- > filename=command_line_args()
- > print,filename
- > file='filename'
- > OPENR, lun, file, /GET_LUN
- > rows = File_Lines(file)
- > header = STRARR(14)
- > READF, lun, header
- > PRINT, header
- > Point_Lun, -lun, currentLocation

>

>

> Or like this?

>

- > filename=command_line_args()
- > print, filename
- > OPENR, lun, 'filename', /GET LUN
- > rows = File Lines('filename')
- > header = STRARR(14)
- > READF, lun, header
- > PRINT, header
- > Point_Lun, -lun, currentLocation

What exactly are the errors you mention you're getting?

Also, what do you get when you type this?

filename=command_line_args(count=count) help, filename print, transpose(filename) print, 'Count:', Count

What are you using the following line for?

file='filename'

If you want to extract the first string from the string array returned by the command_line_args() function, I would use file = filename[0] instead.

Apart from that - as it stands, I would say that yes, these lines are probably right in that I can't find an obvious coding error there, but it depends on what you're trying to do!

Tell us more :-) Chris

Subject: Re: command line arguments
Posted by xiao zhang on Mon, 29 Sep 2008 18:32:09 GMT
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On Sep 29, 11:41 am, Spon <christoph.b...@gmail.com> wrote: > On Sep 29, 5:01 pm, xiao < littledd...@gmail.com > wrote: > > >> HI~ guys, is these lines right? Why I cannot open the file based on >> the following errors. I know the file is there : (Thank you >> filename=command_line_args() >> print, filename >> file='filename' >> OPENR, lun, file, /GET LUN >> rows = File Lines(file) >> header = STRARR(14) >> READF, lun, header >> PRINT, header Point_Lun, -lun, currentLocation >

```
>> Or like this?
>> filename=command_line_args()
>> print, filename
>> OPENR, lun, 'filename', /GET_LUN
>> rows = File_Lines('filename')
>> header = STRARR(14)
>> READF, lun, header
>> PRINT, header
   Point Lun. -lun. currentLocation
> What exactly are the errors you mention you're getting?
>
 Also, what do you get when you type this?
> filename=command_line_args(count=count)
> help, filename
> print, transpose(filename)
> print, 'Count:', Count
 What are you using the following line for?
> file='filename'
> If you want to extract the first string from the string array returned
> by the command_line_args() function, I would use
> file = filename[0]
> instead.
>
> Apart from that - as it stands, I would say that yes, these lines are
> probably right in that I can't find an obvious coding error there, but
> it depends on what you're trying to do!
> Tell us more :-)
> Chris
I did it like this:
idl -arg D20051210_220601_P.QC.eol
And then
IDL> .r upperdata.pro
% Compiled module: $MAIN$.
D20051210_220601_P.QC.eol
% OPENR: Error opening file. Unit: 100, File: filename
 No such file or directory
```

Subject: Re: command line arguments
Posted by xiao zhang on Mon, 29 Sep 2008 18:34:23 GMT
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```
On Sep 29, 11:41 am, Spon <christoph.b...@gmail.com> wrote:
> On Sep 29, 5:01 pm, xiao < littledd...@gmail.com > wrote:
>
>
>
>> HI~ guys, is these lines right? Why I cannot open the file based on
>> the following errors. I know the file is there : ( Thank you
>
>> filename=command_line_args()
>> print, filename
>> file='filename'
>> OPENR, lun, file, /GET_LUN
>> rows = File Lines(file)
>> header = STRARR(14)
>> READF, lun, header
>> PRINT, header
    Point_Lun, -lun, currentLocation
>> Or like this?
>
>> filename=command_line_args()
>> print,filename
>> OPENR, lun, 'filename', /GET_LUN
>> rows = File_Lines('filename')
>> header = STRARR(14)
>> READF, lun, header
>> PRINT, header
   Point Lun, -lun, currentLocation
 What exactly are the errors you mention you're getting?
>
>
 Also, what do you get when you type this?
>
> filename=command_line_args(count=count)
> help, filename
> print, transpose(filename)
> print, 'Count:', Count
>
  What are you using the following line for?
> file='filename'
```

```
> If you want to extract the first string from the string array returned
> by the command_line_args() function, I would use
> file = filename[0]
> instead.
> Apart from that - as it stands, I would say that yes, these lines are
> probably right in that I can't find an obvious coding error there, but
> it depends on what you're trying to do!
>
> Tell us more :-)
> Chris
It gave me the following stuff
IDL> .r upperdata.pro
% Compiled module: $MAIN$.
FILENAME
                STRING = Array[1]
D20051210_220601_P.QC.eol
Count:
             1
D20051210_220601_P.QC.eol
% OPENR: Error opening file. Unit: 100, File: filename
 No such file or directory
Subject: Re: command line arguments
Posted by Rick Towler on Mon, 29 Sep 2008 18:58:10 GMT
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Try it by passing the full path, not just the filename.
-Rick
xiao wrote:
> I did it like this:
> idl -arg D20051210_220601_P.QC.eol
>
 And then
> IDL> .r upperdata.pro
> % Compiled module: $MAIN$.
> D20051210 220601 P.QC.eol
> % OPENR: Error opening file. Unit: 100, File: filename
   No such file or directory
>
> It can print the right name but did not open the file......
```

>

Subject: Re: command line arguments Posted by xiao zhang on Mon, 29 Sep 2008 19:04:18 GMT

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```
On Sep 29, 1:58 pm, Rick Towler < rick.tow...@nomail.noaa.gov> wrote:
> Try it by passing the full path, not just the filename.
> -Rick
> xiao wrote:
>> I did it like this:
>> idl -arg D20051210_220601_P.QC.eol
>> And then
>
>> IDL> .r upperdata.pro
>> % Compiled module: $MAIN$.
>> D20051210_220601_P.QC.eol
>> % OPENR: Error opening file. Unit: 100, File: filename
   No such file or directory
>
>> It can print the right name but did not open the file......
>
```

Seems it still does not working...

Subject: Re: command line arguments
Posted by David Fanning on Mon, 29 Sep 2008 19:13:37 GMT
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xiao writes:

> Seems it still does not working...

Try hard-coding the file name in your program. Does it work then? :-)

Cheers,

David

--

David Fanning, Ph.D.

Coyote's Guide to IDL Programming (www.dfanning.com)

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

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```
On Sep 29, 2:04 pm, xiao < littledd...@gmail.com > wrote:
> On Sep 29, 1:58 pm, Rick Towler < rick.tow...@nomail.noaa.gov> wrote:
>
>
>
>> Try it by passing the full path, not just the filename.
>> -Rick
>
>> xiao wrote:
>>> I did it like this:
>>> idl -arg D20051210_220601_P.QC.eol
>>> And then
>>> IDL> .r upperdata.pro
>>> % Compiled module: $MAIN$.
>>> D20051210 220601 P.QC.eol
>>> % OPENR: Error opening file. Unit: 100, File: filename
     No such file or directory
>>>
>>> It can print the right name but did not open the file......
> Seems it still does not working...
You want to use filename (no quotes). 'filename' is the literal
```

Subject: Re: command line arguments
Posted by Jean H. on Mon, 29 Sep 2008 20:22:29 GMT

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string. filename is the variable.

```
> filename=command_line_args()> print,filename> file='filename'> OPENR, lun, file, /GET_LUN
```

do OPENR, lun, filename, /GET_LUN

> rows = File_Lines(file)

```
> header = STRARR(14)
> READF, lun, header
> PRINT, header
   Point_Lun, -lun, currentLocation
> Or like this?
>
> filename=command_line_args()
> print, filename
> OPENR, lun, 'filename', /GET LUN
> rows = File_Lines('filename')
> header = STRARR(14)
> READF, lun, header
> PRINT, header
   Point_Lun, -lun, currentLocation
>
>
>
```

Subject: Re: command line arguments
Posted by xiao zhang on Tue, 30 Sep 2008 02:10:06 GMT
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```
On Sep 29, 2:13 pm, David Fanning <n...@dfanning.com> wrote:
> xiao writes:
>> Seems it still does not working...
>
Try hard-coding the file name in your program. Does
> it work then?:-)
>
Cheers,
>
David
> --
> David Fanning, Ph.D.
> Coyote's Guide to IDL Programming (www.dfanning.com)
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```

Subject: Re: command line arguments
Posted by David Fanning on Tue, 30 Sep 2008 02:21:37 GMT

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YES, it works. thank you ~~~every one :)

xiao writes:

```
> On Sep 29, 2:13 pm, David Fanning <n...@dfanning.com> wrote:
>> xiao writes:
>>> Seems it still does not working...
>>
>> Try hard-coding the file name in your program. Does
>> it work then? :-)
>>
>> Cheers,
>>
>> David
>> --
>> David Fanning, Ph.D.
>> Coyote's Guide to IDL Programming (www.dfanning.com)
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
> YES, it works. thank you ~~~every one :)
Problem solved. ;-)
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.")
```