
Subject: Re: Locating IDL source code file
Posted by [R.Bauer](#) on Tue, 14 Jun 2005 12:25:13 GMT
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Craig wrote:

> [copied over from comp.lang.idl - don't know how to properly cross-post
> it in retrospect using Google groups]
>
>
> Hi all,
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> I'm trying to write some code that will read information (like version
> numbers and dates) from the source files for procedures and functions
> that it uses. In Matlab I would use a command like
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>>> which fred
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> to return the full path to the source file "fred.m". How do I get the
> same result from IDL v6.1? I've tried something like
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> IDL> ttt = file_which('fred.pro', /include_current_dir)

could be done in several ways

- * if it is compiled, help,/source,out=out
- * look for "current directory" or "get_profile_path" in the google forum or
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/get_profile_path_dbase.pro.html
- * file_which if the routine is in !PATH

>
> but just got a null string returned. This might be because I'm using
> the IDLDE, so the routine isn't actually on the search path !PATH, even
> though it has been compiled OK when building the project.

you should think on using a startup script which organises the !path for
you. A startup file is used in idlde and idl the same way. just only an
environment variable IDL_STARTUP must be set to this file.

>
> Once this problem is solved, I'll also need to determine the filename

> for the source file containing a definition of 'fred', because most of
> the routines in this project don't have their own 'fred.pro' source
> file.

Then you want to separate between path file and extension.

you should have a look at:

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/file_path_name_ext_dbase.pro.html

cheers
Reimar

--

Reimar Bauer

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Forschungszentrum Juelich
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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
=====

Subject: Re: Locating IDL source code file
Posted by [Antonio Santiago](#) on Tue, 14 Jun 2005 12:41:15 GMT
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Craig wrote:

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> though it has been compiled OK when building the project.
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```

I almost nothing have used IDLDE (I use Emacs+IDLwave).
 I testes your previous command in the IDL command line interpreter all works fine. Perhaps you need to modify your IDLDE configuration path or something like this.

```
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> the routines in this project don't have their own 'fred.pro' source
> file.
>
```

That is, your file.pro contains procedures "fred" and "tom" ??
 I think there is no function that does this for you, you need to open and parse the file looking for a "PROCEDURE fred" string.

The next procedure opens a file and search for all procedure/functions that starts with the specified "findstring". If you put findstring='fred' then also match names like 'frederic'.

```
;PRO parse, file, findstring
;; Open the file test.lis:
OPENR, 1, file
;; Define a string variable:
line = "
;; Loop until EOF is found:
found = 0
line_number = 0
WHILE (~ EOF(1)) AND (NOT found) DO BEGIN
  ;; Read a line of text:
  READF, 1, line
  ;; Check if match your procedure/function name
  match = STREGEX(STRUPCASE(line), '(PROCEDURE|FUNCTION) ' + $
    "+STRUPCASE(findstring), $
    /BOOLEAN)
  IF match THEN print, line_number, '-', line
  line_number++
ENDWHILE
;; Close the file:
CLOSE, 1
END
```

--

Antonio Santiago Piñerez
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Universitat Politècnica de Catalunya

Subject: Re: Locating IDL source code file
Posted by [Benjamin Hornberger](#) on Tue, 14 Jun 2005 13:14:48 GMT
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Craig wrote:

> [copied over from comp.lang.idl - don't know how to properly cross-post
> it in retrospect using Google groups]
>

I believe comp.lang.idl is not about the Interactive Data Language, but
about some Interface Description Language.

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> numbers and dates) from the source files for procedures and functions
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> Once this problem is solved, I'll also need to determine the filename
> for the source file containing a definition of 'fred', because most of

> the routines in this project don't have their own 'fred.pro' source
> file.
>
> Any ideas?
> TIA,
> Craig
>

This might help:

<http://www.dfanning.com/programs/programrootdir.pro>

Still, file_which should also work if the source file is in the IDL path. And I think you should always have your source files in the path.

Benjamin

Subject: Re: Locating IDL source code file
Posted by [Craig\[1\]](#) on Tue, 14 Jun 2005 14:56:15 GMT
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That explains the lack of response on comp.lang.idl :-)

Thanks,
Craig

Subject: Re: Locating IDL source code file
Posted by [Craig\[1\]](#) on Tue, 14 Jun 2005 14:57:38 GMT
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Thanks. I'm going to try with the "help,/source,out=out" method.
Craig

Subject: Re: Locating IDL source code file
Posted by [Craig\[1\]](#) on Tue, 14 Jun 2005 14:59:02 GMT
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Thanks for your help. I think that the help,/source command will deal with multiple procedures defined in the same source file.

Craig
