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,

>

- > 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

>

>>> which fred

>

- > 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
- > 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 environement 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

Institut fuer Stratosphaerische Chemie (ICG-I) Forschungszentrum Juelich email: R.Bauer@fz-juelich.de

a IDL library at ForschungsZentrum Juelich http://www.fz-juelich.de/icg/icg-i/idl\_icglib/idl\_lib\_intro. html

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Subject: Re: Locating IDL source code file Posted by Antonio Santiago on Tue, 14 Jun 2005 12:41:15 GMT View Forum Message <> Reply to Message

## Craig wrote:

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

> Li all

>

>

>

> Hi all,

- > 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

> >>> which fred

> 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

>

```
> IDL> ttt = file which('fred.pro', /include current dir)
>
> 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.
>
```

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 simething like this.

- > 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.

>

That is, yoru file.pro cotains procedured "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/funtions 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 P�rez ( email: santiago<<at>>grahi.upc.edu www: http://www.grahi.upc.edu/santiago) www: http://asantiago.blogsite.org GRAHI - Grup de Recerca Aplicada en Hidrometeorologia Universitat Polit�cnica de Catalunya

Subject: Re: Locating IDL source code file Posted by Benjamin Hornberger on Tue, 14 Jun 2005 13:14:48 GMT View Forum Message <> Reply to Message

## 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.

```
> Hi all,
> 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
>>> which fred
> 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
 IDL> ttt = file_which('fred.pro', /include_current_dir)
>
  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.
```

- > 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 View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

Thanks for your help. I think that the help,/source command will deal with multiple procedures defined in the same source file.

Craig