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:
> [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)
>
> 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
```

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Antonio Santiago Pï¿½rez
(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 Politï¿½cnica de Catalunya