Subject: Re: How does IDL find functions?
Posted by Antonio Santiago on Mon, 20 Jun 2005 06:13:16 GMT
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robertschaefer@gmx.de wrote:
> Hello IDL community,
>
> I'm looking for a smart solution to find functions from my own lib
> inside a self written function or procedure.
> The idea is to get a tree of embedded self written functions.
>

That is: parse a file SOME_FILE.PRO and find if it contains any function
of your own library.

> My solution looks like this but I think there must be an easier way:
>
> -generate a list of functions in user-lib
1- You need to load into memory (array) a list of your functions name.

> -Read the function where to search (openr)
2- Read each file line.

> -compare each line (string) with the list of lib functions
> (how to extract function names egantly? -> strsplit with '=*(' :
> definitely not)

3- I think it will better with a STRMACTH or STREGEX.

This code can help you (extract from the old post
 http://groups-beta.google.com/group/comp.lang.idl-pvwave/bro
wse_thread/thread/bd3fc18ab72631ea/33089f602feb945c?hl=en#33 089f602feb945c):

Parse an entory file 'file' and found all functions or procedures that
starts with 'findstring'.

```
;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
```

> -save coincide functions (strings) and go on searching into found
> functions

4- I dont understand this part. Save the function that coincides with
your function names and then find recursively into functions with
different name??

>
> Does anybody (I'm sure ;-)) know how IDL find functions on compiling?
> This may be exactly the right (fast) way...
>
> Any ideas? ...Thanks for help...
>
> Best regards
>
> robert
>

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