
Subject: Re: Cant find functions in lib
Posted by [Dominik\[1\]](#) on Thu, 05 Apr 2001 12:05:32 GMT
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Helle there,

I found the solution by myself (just looking very sharp on it...)

If somebody wants to know the solution: The procedure must have the same name as the file. So only on function in the file is accessible in the file.
Of course the lib has to be in a right directory.

Dominik

"Dominik" <dpaul@ukl.uni-freiburg.de> schrieb im Newsbeitrag
news:9ahc7r\$18l\$1@n.ruf.uni-freiburg.de...

> Helle there,
>
> I am using IDL for imaging in Nuklear Medicine. We wrote a big library
> (NukMed.pro) with some functions and dont wont to compile it each time. So
> we thought to put it in the lib directory of IDL, where IDL itself puts
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> But when we try to use it, IDL doesnt find the functions we used the whole
> time. Do I have to precompile it or to sign up in a special list for all
> *.pro files?
>
> Thanks
> Dominik
>
>
>

Subject: Re: Cant find functions in lib
Posted by [davidf](#) on Thu, 05 Apr 2001 12:55:46 GMT
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Dominik (dpaul@ukl.uni-freiburg.de) writes:

> I am using IDL for imaging in Nuklear Medicine. We wrote a big library
> (NukMed.pro) with some functions and dont wont to compile it each time. So
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> But when we try to use it, IDL doesnt find the functions we used the whole
> time. Do I have to precompile it or to sign up in a special list for all
> *.pro files?

If you find you have to "compile" the code before you can use it, then the code is not written correctly. Putting it in the lib directory won't help, alas. :-(

If code is written so that the *last* program module in the file has the same name as the program file, which will also be the "name" of the command you are trying to build, then this program will be automatically compiled when the "command" is used, assuming the file is anywhere in the !PATH.

You never have to pre-compile anything in IDL, assuming you have written it correctly.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Cant find functions in lib

Posted by [Dominik\[1\]](#) on Thu, 05 Apr 2001 13:01:02 GMT

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Has it really to be the LAST program module ? I think it is working also with other "places" in the file. Or will the module only find functions in freont of him in the file?

Dominik

"David Fanning" <davidf@dfanning.com> schrieb im Newsbeitrag

news:MPG.153619385014b126989dcc@news.frii.com...

> Dominik (dpaul@ukl.uni-freiburg.de) writes:

>

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> Cheers,
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> David
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> --
> David Fanning, Ph.D.
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Subject: Re: Cant find functions in lib
Posted by [Jaco van Gorkom](#) on Thu, 05 Apr 2001 13:06:54 GMT
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Dominik wrote:

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>> (NukMed.pro) with some functions and dont want to compile it each time. So
>> we thought to put it in the lib directory of IDL, where IDL itself puts all
>> its *.pro.
...
> If somebody wants to know the solution: The procedure must have the same
> name as the file. So only one function in the file is accessible in the file.
> Of course the lib has to be in a right directory.

Right. There are a few more catches: the procedure with the same name as the file must be the *last* procedure in the file, since IDL will stop compiling after that. For a large library, you could put each function in its own file, and put all those files in a directory NukMed. IDL will find all functions

automatically, provided that the NukMed directory is added to the path (in the IDLDE preferences, in an IDL startup script or in an environment variable).

The other catch: the filenames must be all lowercase in order for IDL to find them.

cheers,
Jaco

Subject: Re: Cant find functions in lib
Posted by [Martin Schultz](#) on Thu, 05 Apr 2001 13:13:22 GMT
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Dominik wrote:

>
> Helle there,
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> I am using IDL for imaging in Nuklear Medicine. We wrote a big library
> (NukMed.pro) with some functions and dont wont to compile it each time. So
> we thought to put it in the lib directory of IDL, where IDL itself puts all
> its *.pro.

A *very* bad idea, indeed! You should not mingle user subroutines with the code supplied by RSI or you are bound for trouble.

Martin

> But when we try to use it, IDL doesnt find the functions we used the whole
> time. Do I have to precompile it or to sign up in a special list for all
> *.pro files?
>
> Thanks
> Dominik

--

```

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[[      Bundesstr. 55, 20146 Hamburg      [[
[[      phone: +49 40 41173-308      [[
[[      fax: +49 40 41173-298      [[
[[ martin.schultz@dkrz.de      [[

```

Subject: Re: Cant find functions in lib
Posted by [Dominik\[1\]](#) on Thu, 05 Apr 2001 13:48:06 GMT
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Of course I ment a subdirectory from Lib, which was "the same" for me.

Dominik

"Martin Schultz" <martin.schultz@dkrz.de> schrieb im Newsbeitrag
news:3ACC6F72.7BE281F3@dkrz.de...

> Dominik wrote:

>>

>> Helle there,

>>

>> I am using IDL for imaging in Nuklear Medicine. We wrote a big library

>> (NukMed.pro) with some functions and dont wont to compile it each time.

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>> we thought to put it in the lib directory of IDL, where IDL itself puts

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>

> Martin

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>

>

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>> time. Do I have to precompile it or to sign up in a special list for all

>> *.pro files?

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>> Thanks

>> Dominik

>

> --

> [-----]

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> [[phone: +49 40 41173-308 [[

> [[fax: +49 40 41173-298 [[

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> [-----]

Subject: Re: Cant find functions in lib

Posted by [Paul van Delst](#) on Thu, 05 Apr 2001 14:49:23 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dominik wrote:

>
> Helle there,
>
> I am using IDL for imaging in Nuklear Medicine. We wrote a big library
> (NukMed.pro) with some functions and dont want to compile it each time. So
> we thought to put it in the lib directory of IDL, where IDL itself puts all
> its *.pro.
> But when we try to use it, IDL doesnt find the functions we used the whole
> time. Do I have to precompile it or to sign up in a special list for all
> *.pro files?

My solution to this is not to create a library *file* (like NukMed.pro) with all the goodies but a library *directory* (like ~/pvandelst/idl/NukMed) which contains all the _separate_ files. The directory, which is beneath the idl directory, is then automagically added to my IDL_PATH environment variable because I do a: export IDL_PATH=\$IDL_PATH:~/\${HOME}/idl

Anything below \${HOME}/idl is tacked on the end of the path.

paulv

--

Paul van Delst A little learning is a dangerous thing;
CIMSS @ NOAA/NCEP Drink deep, or taste not the Pierian spring;
Ph: (301)763-8000 x7274 There shallow draughts intoxicate the brain,
Fax:(301)763-8545 And drinking largely sobers us again.
paul.vandelst@noaa.gov Alexander Pope.

Subject: Re: Cant find functions in lib

Posted by [davidf](#) on Thu, 05 Apr 2001 14:54:28 GMT

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Dominik (dpaul@ukl.uni-freiburg.de) writes:

> Has it really to be the LAST program module ? I think it is working also
> with other "places" in the file. Or will the module only find functions in
> freont of him in the file?

Yes, it has to be LAST, but really only if you want it to work all of the time. :-)

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: Cant find functions in lib

Posted by [Kenneth P. Bowman](#) on Thu, 05 Apr 2001 23:43:04 GMT

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In article <MPG.1536350bbbff2315989dce@news.frii.com>, David Fanning
<davidf@dfanning.com> wrote:

> Yes, it has to be LAST, but really only if you want it
> to work all of the time. :-)

I have never understood the reason(s) for this, and find it somewhat inconvenient. If I have (say) a procedure and a few related functions that I would logically keep in the same file, it also seems logical to me to put the "main" procedure (the one whose name matches the filename) at the beginning of the file, rather than burying it at then end. Why doesn't IDL simply compile everything in a file? What value does the user get from stopping the compilation part of the way through a file? (Aside from confusing newbies, of course, which has, at least, mild entertainment value.)

Ken
