Subject: Re: Cant find functions in lib Posted by Dominik[1] on Thu, 05 Apr 2001 12:05:32 GMT View Forum Message <> Reply to Message

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 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?
- >

>

- > Thanks
- > Dominik
- >
- >
- >

Subject: Re: Cant find functions in lib Posted by davidf on Thu, 05 Apr 2001 12:55:46 GMT View Forum Message <> Reply to Message

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
- > 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?

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

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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 View Forum Message <> Reply to Message

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:

>

- >> 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.
- >> 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
> Phone: 970-221-0438 E-Mail: davidf@dfanning.com
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
```

Subject: Re: Cant find functions in lib Posted by Jaco van Gorkom on Thu, 05 Apr 2001 13:06:54 GMT View Forum Message <> Reply to Message

#### Dominik wrote:

• • •

>> 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.
- ...
- > 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.

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

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 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 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

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.
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
  [[ Dr. Martin Schultz Max-Planck-Institut fuer Meteorologie
                Bundesstr. 55, 20146 Hamburg
>
 \prod
                                                    \prod
                phone: +49 40 41173-308
                                                  [[
> [[
                fax: +49 40 41173-298
> [[
                                                [[
> [[ martin.schultz@dkrz.de
                                                \prod
```

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 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.
- > 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 View Forum Message <> Reply to Message

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