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Subject: Re: Figuring out which functions and procedures get called  
Posted by [David Fanning](#) on Fri, 10 Jan 2003 20:46:45 GMT  
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K Banerjee (kbanerjee@ucwphilly.rr.com) writes:

> I need to figure out which functions and procedures get called  
> when using a particular IDL procedure. Is there some straight  
> forward way to do this in IDL?

Why do I have a bad feeling about answering this question? :-)

OK, two ideas come immediately to mind.

1. Read the darn thing. Most well-written IDL procedures are less than 100,000 lines long. :-)
2. Start IDL and compile the procedure in question. Then type "Resolve\_All". Now you have a list of all the \*user\* IDL routines the procedure calls. Add to that any of the system routines it calls (may have to read it after all), and you have the list.

If you wanted to find out which of several identically named procedures were called by this routine, you could upgrade to IDL 5.4 and use File\_Which. Or, if you just wanted to find out which user routines were used in a program, you could type Help, /Source.

Maybe that gives you some ideas.

Cheers,

David

P.S. Let's just say I'm afraid to ask \*why\* you need this information. :-)

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: Figuring out which functions and procedures get called

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Posted by [R.Bauer](#) on Sat, 11 Jan 2003 11:40:28 GMT

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K Banerjee wrote:

> Folks,  
>  
> I need to figure out which functions and procedures get called  
> when using a particular IDL procedure. Is there some straight  
> forward way to do this in IDL?  
>  
> I use IDL 5.3 on Linux.  
>  
> Thanks.  
>  
> K. Banerjee  
>

Dear K

I believe you are looking for something like our helpon or the  
resolve\_dependencies routines.

helpon,'get\_dir',/info

FILE\_EXIST

/usr/local/icg/icg/idl\_source/idl\_work/aaa/file\_exist.pro

2002-11-27 16:32:49

GET\_TEMPLATE\_ONE\_VALUE

/usr/local/icg/icg/idl\_source/idl\_links/get\_template\_one\_val ue.pro

2002-07-18 13:18:51

STR\_SEP                /usr/local/idl/idl/lib/obsolete/str\_sep.pro

2001-08-29 13:08:28

GET\_DIR

/usr/local/icg/icg/idl\_source/idl\_work/rb\_lib/get\_dir.pro

2001-06-14 16:02:32

REPLACE\_STRING

/usr/local/icg/icg/idl\_source/idl\_links/replace\_string.pro

2001-02-13 16:08:30

BUILD\_VECTOR

/usr/local/icg/icg/idl\_source/idl\_links/build\_vector.pro

2000-06-18 08:07:48

CALL\_HELP

/usr/local/icg/icg/idl\_source/idl\_links/call\_help.pro

1999-11-06 16:44:28

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/helpon.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/helpon.tar.gz)

idl binary

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/helpon.sav](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/helpon.sav)

resolve\_dependencies,'combine\_path\_file',/clearsav,/clearbat ,database='/tmp/base.sav'

```
BUILD_VECTOR      P
/usr/local/icg/icg/idl_source/idl_links/build_vector.pro
    CALL_HELP,REVERSE
CALL_HELP         F
/usr/local/icg/icg/idl_source/idl_links/call_help.pro
    GET_TEMPLATE_ONE_VALUE,REVERSE,STR_SEP
COMBINE_PATH_FILE  F
/usr/local/icg/icg/idl_source/idl_work/fr_lib/combine_path_file.pro
    REPLACE_STRING,REVERSE
FILE_EXIST        F
/usr/local/icg/icg/idl_source/idl_work/aaa/file_exist.pro
    CALL_HELP,REVERSE
GET_TEMPLATE_ONE_VALUE F
/usr/local/icg/icg/idl_source/idl_links/get_template_one_value.pro
BUILD_VECTOR CALL_HELP,FILE_EXIST,REPLACE_STRING,REVERSE
REPLACE_STRING    F
/usr/local/icg/icg/idl_source/idl_links/replace_string.pro
    CALL_HELP,REVERSE
REVERSE           F /usr/local/idl/idl/lib/reverse.pro
STR_SEP           F /usr/local/idl/idl/lib/obsolete/str_sep.pro
    REVERSE
```

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/resolve\\_dependencies.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/resolve_dependencies.tar.gz)

idl binary

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/resolve\\_dependencies.sav](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/resolve_dependencies.sav)

Please have a look for further routines and licensing at

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html)

On the database icons you can see the results of the last routine

Cheers

Reimar

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Reimar Bauer

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a IDL library at ForschungsZentrum Juelich  
[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_lib\\_intro.html](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html)  
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Subject: Re: Figuring out which functions and procedures get called  
Posted by [rmoss4](#) on Sun, 12 Jan 2003 00:51:11 GMT  
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I'd suggest using idlde and choosing Run->Profile...  
This will show you the amount of time spent in every user and system  
function or procedure in you program. It's very handy for speed  
optimization work.

Robert Moss, PhD  
[rmoss4@houston.rr.com](mailto:rmoss4@houston.rr.com)

K Banerjee wrote:

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