
Subject: listing all subroutines and paths used in a program.
Posted by [George Millward](#) on Mon, 24 Jan 2011 18:26:14 GMT
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Hi there,

I have been given a rather large idl program which I need to do some development work on.

It calls all sorts of routines in all sorts of libraries. Some of the routines are standard IDL commands
- some are locally part of the application - others are in libraries that are located on networked drives.

I want to be able to get a meaningful listing of everything this program calls. Is there a way to do this?

I realize that the console shows every subroutine/function as it is first used/compiled - but what I need is the full path to each routine - so I can stand some sort of chance of figuring out where to find each routine.

Cheers

George.

Subject: Re: listing all subroutines and paths used in a program.
Posted by [penteado](#) on Mon, 24 Jan 2011 18:51:37 GMT
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> I want to be able to get a meaningful listing of everything this
> program calls. Is there a way to do this?
> I realize that the console shows every subroutine/function as it is
> first used/compiled - but what I need
> is the full path to each routine - so I can stand some sort of chance
> of figuring out where to find each routine.

What about routine_info(/source)?

Subject: Re: listing all subroutines and paths used in a program.
Posted by [David Fanning](#) on Mon, 24 Jan 2011 18:58:10 GMT
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Paulo Penteado writes:

> What about routine_info(/source)?

Now there is a routine we should all be taking more advantage of!

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

Seppure ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: listing all subroutines and paths used in a program.

Posted by [George Millward](#) on Mon, 24 Jan 2011 20:51:59 GMT

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On Jan 24, 11:58 am, David Fanning <n...@dfanning.com> wrote:

> Paulo Penteado writes:

>> What about routine_info(/source)?

>

> Now there is a routine we should all be taking

> more advantage of!

>

> Cheers,

>

> David

>

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

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

> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

routine_info should be what I need - but it's not working right.

If I do this:

```
> result = routine_info(my_app)
```

```
> print, result
```

I get all the called routines. Fine, but no paths - just the routine names.

But if I do this:

```
> result = routine_info(my_app,/source)
```

% ROUTINE_INFO: String expression required in this context: MY_APP.
% Execution halted at: \$MAIN\$

Any idea what I'm doing wrong ?

Subject: Re: listing all subroutines and paths used in a program.
Posted by [David Fanning](#) on Mon, 24 Jan 2011 21:03:41 GMT
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George Millward writes:

```
> But if I do this:
>
>> result = routine_info(my_app,/source)
>
> % ROUTINE_INFO: String expression required in this context: MY_APP.
> % Execution halted at: $MAIN$
>
> Any idea what I'm doing wrong ?
```

Have you compiled all the routines in your application?
Routine_Info only works on *compiled* program modules.
You will probably need to use RESOLVE_ALL to get everything
compiled, then try ROUTINE_INFO.

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: listing all subroutines and paths used in a program.
Posted by [jeanh](#) on Mon, 24 Jan 2011 21:04:27 GMT
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```
>> result = routine_info(my_app,/source)
>
> % ROUTINE_INFO: String expression required in this context: MY_APP.
> % Execution halted at: $MAIN$
```

>
> Any idea what I'm doing wrong ?

well, give it a string as it asks for!
result = routine_info('my_app',/source)

:-)

Jean

Subject: Re: listing all subroutines and paths used in a program.
Posted by [penteado](#) on Mon, 24 Jan 2011 21:06:08 GMT
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On Jan 24, 6:51 pm, George Millward <george.millw...@noaa.gov> wrote:

```
>> result = routine_info(my_app,/source)
>
> % ROUTINE_INFO: String expression required in this context: MY_APP.
> % Execution halted at: $MAIN$
```

What is the contents of the variable my_app? Apparently, not a string, as routine_info expects.

Anyway, it seems that you are looking for all currently compiled routines (after a call to your routine, or to resolve_all), which is done without providing a routine name to routine_info. That is, something like

```
result=routine_info(/source)
```

or

```
result=routine_info(/source,/functions)
```

Subject: Re: listing all subroutines and paths used in a program.
Posted by [Andrew Cool](#) on Mon, 24 Jan 2011 21:36:58 GMT
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On Jan 25, 7:06 am, Paulo Penteado <pp.pente...@gmail.com> wrote:

```
> On Jan 24, 6:51 pm, George Millward <george.millw...@noaa.gov> wrote:
>
>>> result = routine_info(my_app,/source)
>
>> % ROUTINE_INFO: String expression required in this context: MY_APP.
>> % Execution halted at: $MAIN$
```

>
> What is the contents of the variable my_app? Apparently, not a string,
> as routine_info expects.
>
> Anyway, it seems that you are looking for all currently compiled
> routines (after a call to your routine, or to resolve_all), which is
> done without providing a routine name to routine_info. That is,
> something like
>
> result=routine_info(/source)
>
> or
>
> result=routine_info(/source,/functions)

What's wrong with Help,/source ?

It gives the full path name for all compiled procedures and functions.

Andrew
www.skippysky.com.au

Subject: Re: listing all subroutines and paths used in a program.
Posted by [George Millward](#) on Mon, 24 Jan 2011 22:10:53 GMT
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On Jan 24, 2:36 pm, Andrew Cool <andrew.c...@dsto.defence.gov.au>
wrote:
> On Jan 25, 7:06 am, Paulo Penteado <pp.pente...@gmail.com> wrote:
>
>
>
>> On Jan 24, 6:51 pm, George Millward <george.millw...@noaa.gov> wrote:
>
>>>> result = routine_info(my_app,/source)
>
>>> % ROUTINE_INFO: String expression required in this context: MY_APP.
>>> % Execution halted at: \$MAIN\$
>
>> What is the contents of the variable my_app? Apparently, not a string,
>> as routine_info expects.
>
>> Anyway, it seems that you are looking for all currently compiled
>> routines (after a call to your routine, or to resolve_all), which is
>> done without providing a routine name to routine_info. That is,

```
>> something like
>
>> result=routine_info(/source)
>
>> or
>
>> result=routine_info(/source,/functions)
>
> What's wrong with Help,/source ?
>
> It gives the full path name for all compiled procedures and functions.
>
> Andrewwww.skippysky.com.au
```

Hmm,

help,/source works great.

Thanks

Subject: Re: listing all subroutines and paths used in a program.

Posted by [R.Bauer](#) on Tue, 25 Jan 2011 20:32:21 GMT

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Am 24.01.2011 19:26, schrieb George Millward:

```
> Hi there,
>
> I have been given a rather large idl program which I need to do some
> development work on.
> It calls all sorts of routines in all sorts of libraries. Some of the
> routines are standard IDL commands
> - some are locally part of the application - others are in libraries
> that are located on networked drives.
>
> I want to be able to get a meaningful listing of everything this
> program calls. Is there a way to do this?
> I realize that the console shows every subroutine/function as it is
> first used/compiled - but what I need
> is the full path to each routine - so I can stand some sort of chance
> of figuring out where to find each routine.
```

look at help on of the icg library

http://www.fz-juelich.de/icg/icg-1/idl_icglib/idl_source/idl_html/dbase/helpon_dbase.pro.html

helpon, routine, /info

e.g. help on, "js2string", /info
STR_SEP
/usr/local/itt/idl/idl80/lib/obsolete/str_sep.pro
2010-06-17 21:17:20
JS2STRING
/usr/local/icg/icg/idl_source/idl_work/aaa/js2string.pro
2010-02-18 10:04:20
STRING2JS
/usr/local/icg/icg/idl_source/idl_work/aaa/string2js.pro
2006-09-05 08:20:20
REPLACE_STRING
/usr/local/icg/icg/idl_source/idl_links/replace_string.pro
2004-06-21 13:44:00
GET_TEMPLATE_ONE_VALUE
/usr/local/icg/icg/idl_source/idl_links/get_template_one_value.pro
2003-03-20 10:09:40
IS_STRING
/usr/local/icg/icg/idl_source/idl_links/is_string.pro
2001-01-16 15:22:26
BUILD_VECTOR
/usr/local/icg/icg/idl_source/idl_links/build_vector.pro
2000-06-18 08:07:48
MONTH2NUMBER
/usr/local/icg/icg/idl_source/idl_links/month2number.pro
1999-12-14 14:56:40
CALL_HELP
/usr/local/icg/icg/idl_source/idl_links/call_help.pro
1999-11-06 16:44:28
IS_STRUCTURE
/usr/local/icg/icg/idl_source/idl_links/is_structure.pro
1998-09-07 14:21:11
WEEKDAY
/usr/local/icg/icg/idl_source/idl_links/weekday.pro
1998-06-16 13:33:02
YMD2JD
/usr/local/icg/icg/idl_source/idl_links/ymd2jd.pro
1998-01-16 09:26:26
MONTHNAMES
/usr/local/icg/icg/idl_source/idl_links/monthnames.pro
1998-01-16 09:26:10
JS2YMDS
/usr/local/icg/icg/idl_source/idl_links/js2ymds.pro
1998-01-16 09:26:06
JD2YMD
/usr/local/icg/icg/idl_source/idl_links/jd2ymd.pro
1998-01-16 09:26:06

cheers
Reinar

>
> Cheers
>
> George.
>

Subject: Re: listing all subroutines and paths used in a program.
Posted by [R.Bauer](#) on Tue, 25 Jan 2011 20:45:58 GMT
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David I still like that trick of that program, Of course I could do it now with nicer lines and may be shorter but I think I would solve this again in the same way.

Ever thought on using idl to idl something else?

cheers
Reimar