
Subject: Re: How to know where IDL found the source of one procedure?

Posted by [David Fanning](#) on Wed, 28 Nov 2001 23:16:16 GMT

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Xiangyun Qiu (qiuxiang@msu.edu) writes:

- > Let's suppose we put several identical "test.sav" files in different
- > directories, all these
- > directly are included in IDL searching path, but we have no idea about
- > their order.
- >
- > If we fire up 'IDL', and execute "test", is there an easy way to know
- > which 'test.sav' IDL
- > first found and execute?

IDL> Help, /Source

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

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

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

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [thompson](#) on Wed, 28 Nov 2001 23:34:52 GMT

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Xiangyun Qiu <qiuxiang@msu.edu> writes:

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- > directories, all these
- > directly are included in IDL searching path, but we have no idea about
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There is a "which" routine available in

<ftp://sohoftp.nascom.nasa.gov/solarsoft/gen/idl/help/>

It acts like the "which" command in Unix. There's also a /all option, to find all the instances in the path.

Bill Thompson

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [Craig Markwardt](#) on Wed, 28 Nov 2001 23:50:55 GMT

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David Fanning <david@dfanning.com> writes:

> Xiangyun Qiu (qiuxiang@msu.edu) writes:

>

>> Let's suppose we put several identical "test.sav" files in different

>> directories, all these

>> directly are included in IDL searching path, but we have no idea about

>> their order.

>>

>> If we fire up 'IDL', and execute "test", is there an easy way to know

>> which 'test.sav' IDL

>> first found and execute?

>

> IDL> Help, /Source

The ability for HELP to give the path to a SAVE file appears in IDL 5.3. Before that the source name appears blank.

If you want to predict ahead of time which "test.sav" will be used, you should know they are searched in the order they appear in !PATH.

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [Xiangyun Qiu](#) on Thu, 29 Nov 2001 00:49:23 GMT

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William Thompson wrote:

There is a "which" routine available in

>
> ftp://sohoftp.nascom.nasa.gov/solarsoft/gen/idl/help/
>
> It acts like the "which" command in Unix. There's also a /all option, to find
> all the instances in the path.
>
> Bill Thompson

I think <which> is just what I need. I want to use the path as a variable in
'test.sav' so that I can
make up other paths. I thought about the same way to search for it in the
!PATH, just couldn't believe
there is no easier way to extract it.

Thanks,

Xiangyun

File Attachments

1) [qiuxiang.vcf](#), downloaded 149 times

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [David Fanning](#) on Thu, 29 Nov 2001 00:53:43 GMT

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Xiangyun Qiu (qiuxiang@msu.edu) writes:

> I think <which> is just what I need. I want to use the path as a variable in
> 'test.sav' so that I can
> make up other paths. I thought about the same way to search for it in the
> !PATH, just couldn't believe
> there is no easier way to extract it.

Lot's of easy things are hard in IDL. (A filled
contour plot comes to mind.) But this is balanced
by the myriad hard things that are incredibly
easy. :-)

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting

Phone: 970-221-0438, E-mail: david@dfanning.com

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Subject: Re: How to know where IDL found the source of one procedure?

Posted by [Xiangyun Qiu](#) on Thu, 29 Nov 2001 01:03:46 GMT

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Craig Markwardt wrote:

```
> David Fanning <david@dfanning.com> writes:
>
>> Xiangyun Qiu (qiuxiang@msu.edu) writes:
>>
>>> Let's suppose we put several identical "test.sav" files in different
>>> directories, all these
>>> directly are included in IDL searching path, but we have no idea about
>>> their order.
>>>
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>> IDL> Help, /Source
>
> The ability for HELP to give the path to a SAVE file appears in IDL
> 5.3. Before that the source name appears blank.
>
> If you want to predict ahead of time which "test.sav" will be used,
> you should know they are searched in they order they appear in !PATH.
>
> Craig
>
> --
> -----
> Craig B. Markwardt, Ph.D.      EMAIL:  craigmnet@cow.physics.wisc.edu
> Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
> -----
```

I also tried using help, /source_files (this is my first time using
procedure <help> :-()
it is more convenient, however the IDL documentation doesn't recommend
extracting
information as variables from the output. It's very handy for sure!

Thanks all,

Xiangyun

File Attachments

1) [qiuxiang.vcf](#), downloaded 166 times

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [Mark Hadfield](#) on Thu, 29 Nov 2001 01:09:30 GMT

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From: "William Thompson" <thompson@orpheus.nascom.nasa.gov>

> There is a "which" routine available in

>

> <ftp://sohoftp.nascom.nasa.gov/solarsoft/gen/idl/help/>

>

> It acts like the "which" command in Unix....

And also a built-in FILE_WHICH routine, introduced in 5.4.

Mark Hadfield

m.hadfield@niwa.cri.nz <http://katipo.niwa.cri.nz/~hadfield>

National Institute for Water and Atmospheric Research

--

Posted from clam.niwa.cri.nz [202.36.29.1]

via Mailgate.ORG Server - <http://www.Mailgate.ORG>

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [Pavel A. Romashkin](#) on Thu, 29 Nov 2001 05:07:23 GMT

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I know this is silly, but WHY would one need this? Isn't the whole idea of a program in IDL path that you have a correct version and run it?

"Xiangyun Qiu" <qiuxiang@msu.edu> wrote in message <news:3C0568C1.DDEA79B1@msu.edu...>

> Hi, all,

>

> Sorry for asking this question if it has been posted before, I tried to

> search this

> subject in the newsgroup, but failed.

>

> Let's suppose we put several identical "test.sav" files in different

> directories, all these

> directly are included in IDL searching path, but we have no idea about

> their order.
>
> If we fire up 'IDL', and execute "test", is there an easy way to know
> which 'test.sav' IDL
> first found and execute?
>
> Many thanks in advances,
>
> Xiangyun
>

Subject: Re: How to know where IDL found the source of one procedure?
Posted by [jeyadev](#) on Fri, 30 Nov 2001 19:54:24 GMT
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In article <MPG.166f3506d3ccd4ee98979e@news.frii.com>,
David Fanning <david@dfanning.com> wrote:
> Xiangyun Qiu (qiuxiang@msu.edu) writes:

>
>> I think <which> is just what I need. I want to use the path as a variable in
>> 'test.sav' so that I can
>> make up other paths. I thought about the same way to search for it in the
>> !PATH, just couldn't believe
>> there is no easier way to extract it.

How about not using IDL?!

How do I find all procedures that start with "hist"? This is how I will do it.

```
kaveri 38% set aa = `echo $WAVE_PATH | sed 's:/ /g'`  
kaveri 39% find $aa -name "hist*.pro" -print  
/import/pvwave-6.0/wave/lib/std/hist_equal.pro  
/import/pvwave-6.0/wave/lib/std/hist_equal_ct.pro  
/import/pvwave-6.0/wave/lib/user/hist_equal_int.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_init.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_equal_init.pro  
/import/pvwave-6.0/wave/lib/std/hist_equal.pro  
/import/pvwave-6.0/wave/lib/std/hist_equal_ct.pro  
/import/pvwave-6.0/wave/lib/user/hist_equal_int.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_init.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_equal_init.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_init.pro  
/import/pvwave-6.0/wave/lib/user/guitools/demo/hist_equal_init.pro
```

No doubt, there is an one-liner, but I am not an expert!

> Lot's of easy things are hard in IDL. (A filled
> contour plot comes to mind.) But this is balanced
> by the myried hard things that are incredibly
> easy. :-)

You can say that again, dear sir!

--

Surendar Jeyadev jeyadev@wrc.xerox.com

Subject: Re: How to know where IDL found the source of one procedure?

Posted by [kashyap](#) on Sat, 01 Dec 2001 20:06:58 GMT

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at least in Solaris2.8/tcsh, you can make that a one-liner, thusly:

```
cauvery 105> find `echo $IDL_DIR/lib/ $IDL_PATH | sed 's/[+:/] /g'` -name hist*.pro -print
/soft/idl-asc/idl_5.1/idl/lib/hist_2d.pro
/soft/idl-asc/idl_5.1/idl/lib/hist_equal.pro
/soft/idl-asc/idl_5.1/idl/lib/obsolete/hist_equal_ct.pro
/soft/idl-asc/idl_5.1/idl/lib/obsolete/hist_equal_int.pro
```

(some systems append the standard IDL_PATH to preset IDL_PATH after idl is invoked, hence the "\$IDL_DIR/lib/ \$IDL_PATH")

vinay

ps: good choice of machine name, btw.

In article <9u8o5g\$na5\$1@news.wrc.xerox.com>, Surendar Jeyadev <jeyadev@wrc.xerox.com> wrote:

>

> How about not using IDL?!

>

> How do I find all procedures that start with "hist"? This is how I will do

> it.

>

```
> kaveri 38% set aa = `echo $WAVE_PATH | sed 's:/ /g'`
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> /import/pvwave-6.0/wave/lib/std/hist_equal.pro
> /import/pvwave-6.0/wave/lib/std/hist_equal_ct.pro
> /import/pvwave-6.0/wave/lib/user/hist_equal_int.pro
> /import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_init.pro
> /import/pvwave-6.0/wave/lib/user/guitools/demo/hist_equal_init.pro
> /import/pvwave-6.0/wave/lib/std/hist_equal.pro
> /import/pvwave-6.0/wave/lib/std/hist_equal_ct.pro
> /import/pvwave-6.0/wave/lib/user/hist_equal_int.pro
```

> /import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_ini t.pro
> /import/pvwave-6.0/wave/lib/user/guitools/demo/histo_equal_i nit.pro
> /import/pvwave-6.0/wave/lib/user/guitools/demo/hist_plot_ini t.pro
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>
> No doubt, there is an one-liner, but I am not an expert!
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>> Lot's of easy things are hard in IDL. (A filled
>> contour plot comes to mind.) But this is balanced
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>> easy. :-)
>
> You can say that again, dear sir!
> --
>
> Surendar Jeyadev jeyadev@wrc.xerox.com

--

kashyap@head-cfa.harvard.edu 617 495 7173 [CfA/P-146] 617 496 7173 [F]

Subject: Re: How to know where IDL found the source of one procedure?
Posted by [Struan Gray](#) on Mon, 03 Dec 2001 13:42:33 GMT
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Surendar Jeyadev, jeyadev@wrc.xerox.com writes:

>
> How do I find all procedures that start with "hist"?

Upgrade to 5.5 and use FILE_SEARCH.

Struan
