
Subject: Re: Method Overrides

Posted by [Michael Galloy](#) on Mon, 04 Jun 2012 19:49:25 GMT

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On 6/4/12 1:20 PM, Matthew Argall wrote:

> Hi,
>
> I have a set of IDL objects and am running into method overriding
> problems at run-time. Any time I invoke a sub-class at run-time
> without explicitly compiling it before-hand, the class definition
> method gets compiled and executed, but not the over-riding methods.
> The super-class's methods still get used.
>
> All methods are in the same file before/above the object definition
> method (`__define`), so I thought they would be compiled and recognized
> at the same time, but apparently not as I expected.

This should work as you are expecting.

> At run-time, I see
> % Compiled module: CLASS__DEFINE
>
> But if I compile it myself
> IDL> .compile class__define
> % Compiled module: CLASS__DEFINE::METHOD1
> % Compiled module: CLASS__DEFINE::METHOD2
> % Compiled module: CLASS__DEFINE::METHOD3
> % Compiled module: CLASS__DEFINE

Are you using "compile_opt hidden" in the methods? Otherwise, I'm not sure why this would be from what you are describing. Are you sure you are getting the correct source code file, not an old one? Use "help, /source" to see what has been compiled in your current IDL session.

> Could some one explain to me a little more clearly when or in which
> order to compile sub-classes and super-classes? Every time I use an
> over-riding method, do I either have to compile it or use the "obj ->
> classname::method" syntax to ensure that I get the right one?

You shouldn't ever have to manually compile things if you have named them correctly. You also shouldn't have to use `obj->classname::method` unless you are trying to get the superclasses' method.

Mike

--

Michael Galloy

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Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

Subject: Re: Method Overrides
Posted by [Matthew Argall](#) on Tue, 05 Jun 2012 13:55:05 GMT
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I used "help, /source" and all of the methods are being compiled at run-time, but my program does not produce the expected results until the second time I run it. Is there a reason for this?

Subject: Re: Method Overrides
Posted by [Michael Galloy](#) on Wed, 06 Jun 2012 04:03:37 GMT
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On 6/5/12 7:55 AM, Matthew Argall wrote:

> I used "help, /source" and all of the methods are being compiled at
> run-time, but my program does not produce the expected results until
> the second time I run it. Is there a reason for this?

Are there any more "% Compiled module:" messages on the second run?

Mike

--

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Subject: Re: Method Overrides
Posted by [David Fanning](#) on Wed, 06 Jun 2012 04:19:12 GMT
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Matthew Argall writes:

> I used "help, /source" and all of the methods are being compiled at
> run-time, but my program does not produce the expected results until
> the second time I run it. Is there a reason for this?

I would put "compile_opt idl2" in all your methods,
and once you get the havoc that will cause sorted out,
I'll bet this problem will have disappeared. :-)

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: Method Overrides

Posted by [Matthew Argall](#) on Wed, 06 Jun 2012 14:41:18 GMT

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> Are there any more "% Compiled module:" messages on the second run?

Nope. I am using "compile_opt idl2" (not hidden) as David recommended. Still at run-time I see only

% Compiled Module: CLASS__DEFINE.

But if I do

IDL> help, /source

then I see that all of the modules have been compiled. However, as I said, I do not get the expected results until the second time I run the program. There are no further "% Compile Module:" messages the second time.

I am using IDL 8.0 if that makes a difference.

Subject: Re: Method Overrides

Posted by [David Fanning](#) on Wed, 06 Jun 2012 15:13:33 GMT

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Matthew Argall writes:

> Nope. I am using "compile_opt idl2" (not hidden) as David recommended. Still at run-time I see only

>

> % Compiled Module: CLASS__DEFINE.

>

> But if I do

>

> IDL> help, /source
>
> then I see that all of the modules have been compiled. However, as I said, I do not get the expected results until the second time I run the program. There are no further "% Compile Module:" messages the second time.
>
> I am using IDL 8.0 if that makes a difference.

Is the superclass object written "correctly" (i.e., with the modules in the proper order)?

David

--

David Fanning, Ph.D.
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Sepore ma de ni thui. ("Perhaps thou speakest truth.")
