
Subject: DLM "unload"?

Posted by [Bill Nel](#) on Tue, 15 Apr 2014 21:07:21 GMT

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from the "New free DLL for calling Python from IDL!" thread...

On Monday, March 3, 2014 12:29:01 PM UTC-7, Haje Korth wrote:

> ... found a bug: IDL 8.3 crashes when .f (.full_session_reset) is issued after the DLM is load.

>> I would bet that they forgot to register a DLM "unload" routine for .full reset. >>So the DLM is probably being unloaded, but it isn't being given the chance to >>unload any of it's data structures...

>>

>> Cheers,

>> Chris

Chris,

Can you elaborate? I don't see anything in the documentation or the example DLM code about an IDL_Unload routine. I have a handful of DLL's I use quite regularly, but IDL doesn't crash after a .full_reset. Am I just getting lucky, or is there something else I should be doing? For the DLL, I mean -- not to crash IDL. :-)

I use IDL 8.3 on a 64-bit Windows 7 system, if that makes any difference.

Thanks,
Wayne

Subject: Re: DLM "unload"?

Posted by [Michael Galloy](#) on Wed, 16 Apr 2014 15:14:47 GMT

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On 4/15/14, 3:07 pm, rigby@crd.ge.com wrote:

> from the "New free DLL for calling Python from IDL!" thread...

>

> On Monday, March 3, 2014 12:29:01 PM UTC-7, Haje Korth wrote:

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>>> for .full reset. >>So the DLM is probably being unloaded, but it

>>> isn't being given the chance to >>unload any of it's data

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> Chris,

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> Can you elaborate? I don't see anything in the documentation or the
> example DLM code about an IDL_Unload routine. I have a handful of
> DLL's I use quite regularly, but IDL doesn't crash after a
> .full_reset. Am I just getting lucky, or is there something else I
> should be doing? For the DLL, I mean -- not to crash IDL. :-)
>
> I use IDL 8.3 on a 64-bit Windows 7 system, if that makes any
> difference.
>
> Thanks, Wayne
>

See:

<http://www.exelisvis.com/docs/ExitHandlers.html>

Particularly the last paragraph.

Mike

--

Michael Galloy

www.michaelgalloy.com

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

Research Mathematician

Tech-X Corporation

Subject: Re: DLM "unload"?

Posted by [Bill Nel](#) on Wed, 16 Apr 2014 19:05:54 GMT

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Thanks! That explains it -- I'm not using IDL_ExitRegister().

Subject: Re: DLM "unload"?

Posted by [chris_torrence@NOSPAM](#) on Thu, 17 Apr 2014 16:56:44 GMT

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On Wednesday, April 16, 2014 1:05:54 PM UTC-6, ri...@crd.ge.com wrote:

> Thanks! That explains it -- I'm not using IDL_ExitRegister().

You don't need to use IDL_ExitRegister if your dlm is just doing simple math operations. You only need to use it if you are doing your own memory allocations or keeping files open. If you are using all of IDL's standard memory allocation routines then that memory is owned by IDL and you don't need to worry about it.

-Chris

Subject: Re: DLM "unload"?

Posted by [Michael Galloy](#) on Thu, 17 Apr 2014 20:21:48 GMT

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On 4/17/14, 10:56 AM, Chris Torrence wrote:

> On Wednesday, April 16, 2014 1:05:54 PM UTC-6, ri...@crd.ge.com

> wrote:

>> Thanks! That explains it -- I'm not using IDL_ExitRegister().

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> simple math operations. You only need to use it if you are doing your

> own memory allocations or keeping files open. If you are using all of

> IDL's standard memory allocation routines then that memory is owned

> by IDL and you don't need to worry about it.

>

> -Chris

>

Right, but that explains why his was working. He wasn't getting lucky, he did not have (or need) a exit routine that needed to be called on resets either.

But, I think this means that I need to add a IDL_ResetSession routine to unregister my exit routine in some of my DLMs.

Mike

--

Michael Galloy

www.michaelgalloy.com

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

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