Subject: IDL 8.0 and compile_opt - Update
Posted by PaulClaytonAdams on Mon, 22 Feb 2010 18:45:22 GMT
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Hello Everyone,

Back in December a question was asked here on this forum about changing IDL's default compile option to IDL2. The main reason to perform this change was to allow IDL users to use the more modern "." operator to invoke object method calls instead of the less standard "-> ".

We would like to thank all of you who took the time to respond to this question. As we examined the responses it became increasingly clear that although setting a default compile option of IDL2 would solve the problem, the resulting issues with backwards compatibility were too great to ignore. As a result, we have redesigned this feature so that it will be possible to use the "." syntax to invoke object methods without the need to specify any compile options. This means that we will not alter the default compile options for IDL 8.0; your current code will run fine without the need for any changes. You can also use the new "." syntax anywhere in your code.

I hope that the original post on this subject did not cause too much of a stir, but it was a great opportunity for us to solicit your feedback and ultimately choose what we felt was the best option moving forward.

Paul Adams
Software Engineer
ITTVIS

Subject: Re: IDL 8
Posted by Michael Galloy on Sat, 03 Apr 2010 16:19:37 GMT
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On 4/2/10 4:23 pm, Cliff wrote:
> Does anyone have any more details on the new functionality in IDL 8
> (I've read some of the stuff from the IDL users group already).

Here's an overview of the IDL 8.0 features:

http://michaelgalloy.com/2009/12/28/agu-idl-users-group-meet ing.html#more-2092

This is consistent with what they said at the IDL User Group meeting a month ago.

Mike
--
www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: IDL 8
Posted by Cliff on Sat, 03 Apr 2010 16:32:09 GMT
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On Apr 3, 5:19 pm, Michael Galloy <mgal...@gmail.com> wrote:
> On 4/2/10 4:23 pm, Cliff wrote:
>
>> Does anyone have any more details on the new functionality in IDL 8
>> (I've read some of the stuff from the IDL users group already).
>
> Here's an overview of the IDL 8.0 features:
>
> http://michaelgalloy.com/2009/12/28/agu-idl-users-group-meet ing.html#...
>
> This is consistent with what they said at the IDL User Group meeting a
> month ago.
>
> Mike
> --www.michaelgalloy.com
> Research Mathematician
> Tech-X Corporation

Mike,

Thanks for the info. I'm quite excited now especially about the
easier plotting commands - sad but true :)

I don't suppose you've ever managed to call a fortran function
returning an allocatable array or know whether this is even possible?

Cliff

Subject: Re: IDL 8
Posted by Michael Galloy on Mon, 05 Apr 2010 15:42:23 GMT
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On 4/3/10 10:32 AM, Cliff wrote:
> Thanks for the info. I'm quite excited now especially about the

> easier plotting commands - sad but true :)

This is a big feature. None other than David Fanning thought that the
new graphics system finally makes good on the promise of object graphics
from IDL 5.0.

> I don't suppose you've ever managed to call a fortran function
> returning an allocatable array or know whether this is even possible?

I don't have experience using Fortran with IDL. By "allocatable" do you
mean, allocating the array in Fortran and passing it back to IDL?

Mike
--
www.michaelgalloy.com
Research Mathematician
Tech-X Corporation

Subject: Re: IDL 8
Posted by Cliff on Mon, 05 Apr 2010 20:51:07 GMT
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On Apr 5, 4:42 pm, mgalloy <mgal...@gmail.com> wrote:
> On 4/3/10 10:32 AM, Cliff wrote:
>
>> Thanks for the info. I'm quite excited now especially about the
>> easier plotting commands - sad but true :)
>
> This is a big feature. None other than David Fanning thought that the
> new graphics system finally makes good on the promise of object graphics
> from IDL 5.0.
>
>> I don't suppose you've ever managed to call a fortran function
>> returning an allocatable array or know whether this is even possible?
>
> I don't have experience using Fortran with IDL. By "allocatable" do you
> mean, allocating the array in Fortran and passing it back to IDL?
>
> Mike
> --www.michaelgalloy.com
> Research Mathematician
> Tech-X Corporation

Yes, that's exactly what I meant. I believe that allowing a subroutine
to return an allocatable array is a new feature in FORTRANas well.

Regards,

Cliff

Subject: Re: IDL 8
Posted by Paul Van Delst[1] on Wed, 07 Apr 2010 14:43:50 GMT
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Cliff wrote:
> On Apr 5, 4:42 pm, mgalloy <mgal...@gmail.com> wrote:
>> On 4/3/10 10:32 AM, Cliff wrote:
>>
>>> I don't suppose you've ever managed to call a fortran function
>>> returning an allocatable array or know whether this is even possible?
>> I don't have experience using Fortran with IDL. By "allocatable" do you
>> mean, allocating the array in Fortran and passing it back to IDL?
>>
> Yes, that's exactly what I meant. I believe that allowing a subroutine
> to return an allocatable array is a new feature in FORTRANas well.

Yes. In addition to this capability being standard in Fortran2003 (not all caps anymore), Fortran95 compilers that support the TR15581 extension (which is pretty much all current ones) also allow this functionality.

cheers,

paulv