
Subject: Can I interface my fortran program in IDL code?

Posted by [atmospheric physics](#) on Tue, 24 Jun 2014 12:33:57 GMT

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Hello,

I have a fortran (.f90) program which includes some function subroutines and the code as a single file. But there are multiple input data files are required for compiling this f90 code. As I am using IDL for plotting and data processing, I was thinking if I can create the input files (i.e., ASCII & Binary), compile and run the f90 code, and then extract the data from multiple output files that were created to generate the plots automatically. I just wanted to know how I can work with FORTRAN program / function files from within an IDL code.

Any help with few examples or reference documentation on this topic will be appreciable.

Thanking you in advance,
Madhavan

Subject: Re: Can I interface my fortran program in IDL code?

Posted by [Michael Galloy](#) on Tue, 24 Jun 2014 16:50:43 GMT

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On 6/24/14, 6:33 AM, Madhavan Bomidi wrote:

> Hello,
>
> I have a fortran (.f90) program which includes some function
> subroutines and the code as a single file. But there are multiple
> input data files are required for compiling this f90 code. As I am
> using IDL for plotting and data processing, I was thinking if I can
> create the input files (i.e., ASCII & Binary), compile and run the
> f90 code, and then extract the data from multiple output files that
> were created to generate the plots automatically. I just wanted to
> know how I can work with FORTRAN program / function files from within
> an IDL code.
>
> Any help with few examples or reference documentation on this topic
> will be appreciable.
>
> Thanking you in advance, Madhavan
>

Did you try CALL_EXTERNAL? This is the simplest way to call C/Fortran code from IDL.

Mike

--

Michael Galloy

www.michaelgalloy.com
Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)
Research Mathematician
Tech-X Corporation

Subject: Re: Can I interface my fortran program in IDL code?
Posted by [atmospheric physics](#) on Wed, 25 Jun 2014 11:58:12 GMT
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No... I have not tried using CALL_EXTERNAL earlier. Any nice documentation with examples to use this function???

Thanks in advance,
Madhavan

Subject: Re: Can I interface my fortran program in IDL code?
Posted by [Matthew Argall](#) on Wed, 25 Jun 2014 12:50:35 GMT
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On Wednesday, June 25, 2014 7:58:12 AM UTC-4, Madhavan Bomidi wrote:
> No... I have not tried using CALL_EXTERNAL earlier. Any nice documentation with examples to use this function???

If you go here
http://exelisvis.com/docs/CALL_EXTERNAL.html

And look in the examples, you will see a reference to this document
<http://www.exelisvis.com/docs/EDG.html>

It has nine sections on using Call_External, including "Fortran examples".

Subject: Re: Can I interface my fortran program in IDL code?
Posted by [atmospheric physics](#) on Wed, 25 Jun 2014 13:15:14 GMT
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Thanks for the links I will go through them!!!
