
Subject: Re: Fortran External Calls
Posted by [Andy Loughe](#) on Thu, 17 Dec 1998 08:00:00 GMT
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Here is an example page I created quite awhile ago...

http://www.cdc.noaa.gov/~afl/code/call_external/describe.htm I

> Hi,
> I just need help with a simple (I htink) problem.
> Basically I am having a bit of trouble understanding the little
> bit of documentation in my idl manuals on call_extern. I just have a f90
> function that I want to call from idl. The manuals refer to some advanced
> idl manual which I don't seem to have.
> I found the faq and they have a very promising site at
> eos.crseo.ucsb.edu:/pub/idl/idl-fortran.Z
> but their isn't any such file at this site.
> Anyway I think all I need is a solid example of it being done.
> Don't really understand how to do the argv stuff in fortran. What I am
> trying is definetely not working.
> Thanks in advance.
> John Grimes

Subject: Re: Fortran External Calls
Posted by [edors](#) on Thu, 17 Dec 1998 08:00:00 GMT
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John,

Look in one of the following directories I think you will find the examples you are looking for.

IDL version 4 : \${IDL_DIR}/external/examples/sharelib
IDL version 5.1 : \${IDL_DIR}/external/sharelib
IDL version 5.2 : \${IDL_DIR}/external/call_external/Fortran.

Eric

jpgrimes@midway.uchicago.edu (john peter grimes) writes:

> Hi,
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> Basically I am having a bit of trouble understanding the little

> bit of documentation in my idl manuals on call_external. I just have a f90
> function that I want to call from idl. The manuals refer to some advanced
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> John Grimes
>

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| Eric E. Dors          |
| Los Alamos National Laboratory |
| edors@lanl.gov       |
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Subject: Re: Fortran External Calls
Posted by [steinhh](#) on Thu, 17 Dec 1998 08:00:00 GMT
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John Grimes wrote (about F90 call_external problems):

> Anyway I think all I need is a solid example of it being done.
> Don't really understand how to do the argv stuff in fortran. What I am
> trying is definitely not working.

Although it's *possible* that there's a mechanism in F90 that will allow this to be done, I doubt it. You will probably have to write a C wrapper that gets the parameters from argv and then passes them to the F90 routine. See the examples in \$IDL_DIR/external/call_external/Fortran (that's the name of the directory for IDL 5.2, anyway - can't seem to remember the capital F in Fortran before....) Beware that routine naming conventions (underscores etc.) may be different in C, F77 and F90 compilers.

You should also look at the online help more closely, there's a lot of it that's hidden well: There's the "Main IDL Help File", and then there's the "Other Online Books" (think the naming etc. is slightly different for earlier versions, but the thing that counts is that the online help is segmented into "books", and when you're looking at one book, you cannot see what's

in the other books until you make the switch in the Contents section of the Topics "dialog").

Regards,

Stein Vidar
