
Subject: Re: Calling Fortran 90 from IDL/LINUX/ pgi/fort
Posted by [Haje Korth](#) on Fri, 22 Apr 2005 12:10:56 GMT
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In order to clear out loaded .so, you need to use .full_session_reset or short .f.

"catwithhat" <axel@apl.washington.edu> wrote in message
news:1114132155.276487.294180@z14g2000cwz.googlegroups.com...
> I have Fortran 90 application I need to run from IDL under Redhat Linux
> (x86). I have looked at the examples for call_external but apparently
> neither the direct case nor the C-Wrapper case are implemented for
> Linux.
>
> Question:
> -Can anyone send me an example (Makefile). I have either pgif90
> or ifort (Intel) compilers available for (x86)
> -I have gotten the simple simple_c2f.c to almost work but the
> the strings don't get passed properly.
>
> pgicc -fPIC -c example_c2f.c
> pgif90 -fPIC -shared example_c2f.o example_c2f1.f -o \
> example_c2f.so
>
> This works except for the string variable which doesn't get
> passed into the C-program correctly
>
> -Also I noticed that when I recompile a new *.so library, I need
> to exit IDL and reenter to make it read the new one.
> I tried .reset but that has no effect either.
>
> Thanks much
> Axel
>

Subject: Re: Calling Fortran 90 from IDL/LINUX/ pgi/fort
Posted by [Randall Skelton](#) on Fri, 22 Apr 2005 14:26:50 GMT
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Hi Axel,

Writing c code that passes strings back and forth between fortran can be difficult even without IDL in the mix. While it has become more standardized, each compiler works these things a little differently which is why you won't find many examples in the RSI manual. If you haven't already done so, I'd experiment with just passing strings

between c and fortran with your chosen compilers. I've not used the portland group compilers but there are generic notes on doing this for the sun compilers that generally work for gnu, intel and irix compilers. See:

http://docs.sun.com/source/817-0929/11_cfort.html

If you can convince yourself that you can do this, then it should just be a matter of copying the IDL string to a local C char array that has been correctly sized and then passing it appropriately to your fortran routines.

Cheers,
Randall
