
Subject: Re: FORTRAN DLL and CALL_EXTERNAL
Posted by [steinhh](#) on Thu, 21 May 1998 07:00:00 GMT
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Shane wrote,

> I'm trying to get call_external working under NT4 (i.e. using DLL's)
> using FORTRAN. Has anybody done this before with success? Is there any
> example code (like there is for C in the Advanced development
> guide)...please this would help alot?. The tools I'm using are IDL
> v.5, Digital visual fortran and NT4.

If you can get a DLL written in C to work, and if you can get a normal C-program to call a FORTRAN subroutine, then you simply make a C wrapper that calls the FORTRAN subroutine, and make the DLL by linking the C wrapper + FORTRAN compiler output (not linked, just compiled) together into a DLL. Your IDL routine should then call the C wrapper.

If you can't get a C-source DLL to work, you should consult the Adv. dev. guide + the man pages for your C compiler.

If you can't get a C program to call a FORTRAN routine, consult the C and FORTRAN man pages.

Hint: Some times there is a lot of problems identifying the names of subroutines from one compiler to another, due to various name-altering conventions. Some compilers put an underscore (or two!) at the beginning or end of compiled functions, some don't.

Look in the ...idl/external/sharelib directory for examples of both C and FORTRAN examples.

Regards,

Stein Vidar
