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Subject: Re: The CALL\_EXTERNAL function  
Posted by [dave](#) on Tue, 21 May 1996 07:00:00 GMT  
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>>>> > "Scott" == Scott McIntosh <[scott@astro.gla.ac.uk](mailto:scott@astro.gla.ac.uk)> writes:

Scott> Hi guys/gals, Please can someone help me, I am at my wits'  
Scott> end. I am attempting to use call\_external function to call  
Scott> a 'C' program (eg example.c) , which itself calls F77  
Scott> subroutines (eg example1.f). The example routines I am  
Scott> quoting are contained in the IDL User/Ref manuals, but  
Scott> being able to run these would give me great insight into  
Scott> running the routines I desire. The basic problem seems to  
Scott> be using the 'ld' command to create the necessary shareable  
Scott> library, and is not a compilation problem , I think !!!!!

Scott> Any help that you can provide would be most  
Scott> appreciated.

Scott> Thanks, Scott

Compile with the -KPIC or -Kpic options (-PIC if using GCC), and link  
with the -G option:

# module.c uses libm.a and libmy\_stuff.a

cc -Kpic -o module.o module.c

ld -G -o module.so -L~/mylibs -lmy\_stuff -lm module.o

I use this to call LAPACK fortran routines from a C wrapper. Because  
of the huge number of symbols, I have to compile LAPACK with -KPIC.

Good luck,

David.

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