Subject: Problems compiling shared libraries Posted by johnpeterkelly@gmail. on Thu, 02 Mar 2006 15:55:55 GMT View Forum Message <> Reply to Message

I'm having a consistent problem compiling shared libraries for use with the call_external() command. I've tried using the make_dll function as well as compiling the code manually with cc or gcc. Here's what I do:

in idl: make dll, 'tester', 'simple return'

Where tester.c is the name of my file, and simple_return is the name of a function that just returns a number.

or at the command prompt: cc -c -fPIC tester.c cc -shared tester.o -o tester.so

When I try in IDL: x = call_external('tester.so', 'simple_return')

I get:

% CALL_EXTERNAL: Error loading sharable executable.

Symbol: simple_return, File = tester.so

tester.so: cannot open shared object file: No such

file or directory

It would seem IDL can't find the .so file. What really confuses me is that I have another library file that I downloaded to run some LAPACK routines on older version of IDL (note: not compiled on my computer) which is sitting the same directory as tester.so. When I run:

x = call_external('liblidl.so', 'c_eigen_all', matrix, 3l, e_vec,e_val)

It works fine. This leads me to the conclusion that it's not that it can't find the file, but rather it doesn't recognize it as a library. If it helps, I'm running IDL 6.2 and my machine has a 64 bit processor (this has led to some completely different problems, but it might be relevant).

Thanks in advance for your help.

--John