Subject: Calling Fortran from IDL - Help! :)
Posted by patterso on Tue, 07 Feb 1995 22:28:06 GMT

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I have been trying to call some Fortran routines from within IDL via the CALL\_EXTERNAL routine and use c code wrappers. I have the snall info file produced by Jeff Valenti (from Mar 26, 1992) and can make his example work. Unfortunately, when I try to get my own code to work, I am rfinding that IDL is crashing with the following types of error message:

ld.so: call to undefined procedure return from 0xf73d20f4

which seems to imply that my fortran routine is not being linked witha library containing the RETURN routine. I am compiling using the -c -pic options and linking with libF77.a and libm.a. Anybody have any ideas where I'm going wrong? Unfortuately the FORTRAN code is a bit too large to re-write it in IDL and doesn't easily lend itself to piping.

**Thanks** 

Tim Patterson Cornell University Radiophysics and Space Sciences Dept

Subject: Re: Calling Fortran from IDL - Help! :)
Posted by patterso on Tue, 07 Feb 1995 23:41:41 GMT
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can answer my own question now. Somebody had defined a routine called RETURN halfway doen the code...so I found the library i needed at last. It still doesn't work though - but at least I'm moving forward again :)

Tim

Tim Patterson (patterso@astrosun.tn.cornell.edu) wrote:

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- : CALL\_EXTERNAL routine and use c code wrappers. I have the snall info file
- : produced by Jeff Valenti (from Mar 26, 1992) and can make his example
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: Thanks

: Tim Patterson

: Cornell University Radiophysics and Space Sciences Dept

Subject: Re: calling Fortran from IDL Posted by Stein Vidar Hagfors H[1] on Mon, 27 Aug 2001 18:30:38 GMT View Forum Message <> Reply to Message

snert13@yahoo.com (R. Kotak) writes:

- > I have (unsuccessfully) tried to call F77 numerical recipes routines
- > from within
- > IDL. I used Stein Vidar Hagfors Haugan's perl script to produce a
- > C-wrapper but couldn't compile it. I'm running RedHat 6.2 (IDL 5.3).
- > Some of the errors I get are "IDL\_MEMINT' undeclared (first use in
- > this function)"; "`N\_' undeclared (first use in this function)" -
- > since I know no
- C at all I have no idea how to fix the above.

Sounds like you don't have the (right version) export.h include file being included - usually found in the \$IDL\_DIR/external/ directory. If you have an old version of this, it may not have the IDL\_MEMINT definition - it was added with some (5.0????) version.

If this doesn't work, could you send me (by email) the whole "session" output (from beginning to end), with all error messages?

Stein Vidar Hagfors Haugan

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