Subject: Re: CALL_EXTERNAL failure.
Posted by Octavi Fors on Tue, 20 Jul 1999 07:00:00 GMT
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<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
"Eric J. Korpela" wrote:
<blockquote TYPE=CITE>In article <3794B8F8.8EEB716@fajnm1.am.ub.es>,

Octavi Fors <octavi@fajnm1.am.ub.es> wrote:

>ld.so.1: /usr/local/rsi/idl_5/bin/bin.solaris2.sparc/idlde:

>fatal: relocation error: symbol not found: __s_wsle_nv: referenced
in

>/home/octavi/idl/example.so
<p>The problem with using fortran from within IDL is that the fortran

libraries aren't already in memory. You'll need to do something
to ensure

the fortran libraries are loaded either by statically linking them
with

your .so</blockquote>
How could I do this? From your words, I understand that my previous

link command
<p>$ /usr/ucb/ld -o example.so -z text -G example.o example1.o
<p>doesn't load fortran libraries. Is there any other /usr/ucb/ld
option to really load

them?
<p>You may have seen I'm using gcc and /usr/ucb/ld (both from GNU) with
f77

(from SUN). Maybe there's some incovenient? What do you think?

I know it would be better to use g77 (GNU) to uniformize compilers
and linkers,

but I still don't have it installed (I've to talk with superuser).
<p>Another option would be to use cc, f77 and ld (all of them from SUN),
with the

following procedure:
<p>$ cc -G -Kpic -fsingle -c example.c

$ f77 -c -pic example1.for

$ ld -G -o example.so example.o example1.o
/opt/SUNWspro/SC4.2/lib/libF77.a

/opt/SUNWspro/SC4.2/lib/libm.a
<p>apparently it gives no problem, but when you go to IDL, and try to make:
<p>IDL> value = CALL_EXTERNAL('/home/octavi/example.so','example',

$

n1, x1, y1, var1, rlimit1,n2, x2, y2, var2, rlimit2)
<p>you obtain:
<p>% CALL_EXTERNAL: Error loading sharable executable.

Symbol: cdmtriang, File =

/home/octavi/example.so

ld.so.1: /usr/local/rsi/idl_5/bin/bin.solaris2.sparc/idlde:

fatal: relocation error: symbol not found: __fp_class:

referenced in /home/octavi/example.so

% Execution halted at: $MAIN$
<p>:-(Do you know what does it mean? (Sorry for ignorance :-)

<p>Thanks in advance,
<p>Octavi.
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