## Subject: CALL EXTERNAL ERROR

Posted by guenhwyvar on Tue, 15 Jan 2002 16:11:20 GMT

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Hello.

I've tried to run some C code under IDL, using CALL\_EXTERNAL function.

Following the instuctions of idl manual I've built my shared library:

cc -I my-idl-path/external -c -Kpic mylib.c

cc -G -o mylib.so mylib.c

When I've tried to run my code I get some strange errors:

IDL> temp = call\_external('mylib.so', 'myfunc')

% CALL\_EXTERNAL: Error loading sharable executable.

Symbol: myfunc, File = mylib.so

ld.so.1:

/opt/rsi/idl 5.4/bin/bin.solaris2.sparc64/idl:

fatal: /export/home/users/belletti/lib/mylib.so:

wrong

ELF class: ELFCLASS32

% Execution halted at: \$MAIN\$

I've decided to make my library with gcc:

gcc -Imy-idl-path/external -c -f PIC mylib.c

gcc -shared -o mylib.so mylib.c

with the same bad results.

I run idl 5.4 on a Sun Ultra450 machine with Solaris 2.7.

The same procedure on a Pentium III machine with Mandrake Linux 8.1 and idl 5.5 works perfectly.

There's a problem in the library-making process o this is an idl limit?

I wasn't able to find any information on idl documentation and over

Maybe I should try to force the construction of a "simple" ELF binary? Thanks.

Francesco Belletti

Subject: Re: CALL\_EXTERNAL error

Posted by Andrew Cool on Mon, 19 May 2008 02:48:10 GMT

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On May 18, 6:35 pm, Sid <siddharth.iu...@gmail.com> wrote: > Hi,

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>
> I am trying to call a fortran 90 routine from an IDL program by first
> creating a .so file and then using CALL_EXTERNAL. The command I use is
> as follows:
>
> CALL_EXTERNAL('try02.f90','t',a,b,c)
 and I get the error:
>
 % CALL_EXTERNAL: Error loading sharable executable.
             Symbol: t, File = try02.so
>
             ./try02.so: undefined symbol: t
>
> Any idea what I might have done wrong?
Hi,
From the Help on Call_External :-
sum = 0.0
S = CALL_EXTERNAL('example1.so', 'sum_array_', X, N_ELEMENTS(X), sum)
Perhaps you should specify 'try02.so' rather than 'try02.f90'?
And is 't' really the entry point/routine name within try02.so that
you're trying to call??
Cheers,
Andrew
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