
Subject: CALL_EXTERNAL ERROR

Posted by [guenhwyyvar](#) 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 instructions 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 -I my-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 or this is an idl
limit?

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

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,

>
> 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
