
Subject: Re: CALL_EXTERNAL with F90 on an SGI
Posted by [Terry Haran](#) on Tue, 21 Dec 1999 08:00:00 GMT
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Myron:

I ran into a similar problem a while back using CALL_EXTERNAL to call some C routines. My IDL had been installed under IRIX 6.2, but then later I upgraded to IRIX 6.5 without re-installing IDL. Therefore, my IDL was installed with the IRIX 6.2 default -o32 switch, but I was compiling and linking my new C code with the IRIX 6.5 default -n32 switch, and I got the errors you describe when I tried running my IDL program. I "solved" the problem by compiling and linking my C code using -o32 and everything worked just fine.

Hope this helps.

--Terry

Myron Brown wrote:

> I'm trying to use CALL_EXTERNAL on an SGI running IRIX 6.5 to call Fortran
> routines. I have read the documentation for CALL_EXTERNAL and have looked
> at the examples provided with IDL. My Fortran code looks similar to the
> examples, but I keep getting errors when I call CALL_EXTERNAL saying that it
> cannot find the routine. The file is there. I have checked the name of the
> subroutine I'm calling using 'nm'. Is there something about doing this on
> the SGI that should be implemented differently? I'm using standard MIPS
> Fortran 90 Fortran. Any ideas?
>
> Also, I tried calling CALL_EXTERNAL using another file instead, this time an
> executable program. Of course, it won't find an entry point, but it DID
> find the file!! What's the difference. Both files are in the same
> directory.
>
> Myron Z. Brown
> The Johns Hopkins University Applied Physics Laboratory
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Subject: Re: CALL_EXTERNAL with F90 on an SGI
Posted by [Andy Loughe](#) on Tue, 21 Dec 1999 08:00:00 GMT
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Myron Brown wrote:

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> directory.

Maybe this web site will help:

http://www.cdc.noaa.gov/~afl/code/call_external/describe.htm I

"nm" is helpful when trying to resolve symbols not found
in the table. Notice the testing of mathematical functions in
the routine called primes.f; I had problems finding atan2 and datan2.

Good luck... it seems like a bit of a crap shoot when it comes
to resolving all the symbols.

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"We must believe in free will, we have no choice"-Isaac B. Singer
