
Subject: Re: caling f90

Posted by [Haje Korth](#) on Tue, 04 Sep 2007 17:29:47 GMT

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Hi,

The missing functions are contained in the Intel Fortran libraries. I usually link the static these libraries to avoid these issues.

Haje

<woopik@interia.pl> wrote in message

news:1188919137.972574.312690@g4g2000hsf.googlegroups.com...

> hi

>

> i try run fortran 90 function via call_external an C wrapper

> but i have errors ONLY when i try tu use standard functions like open

> or write(*,*)

> S = CALL_EXTERNAL('biblio.so','dlhipo', ra,ile)

>

> when i use open

> [*****@****] [test] >/usr/local/rsi/idl/bin/bin.linux.x86_64/idlde:

> symbol lookup error: ./biblio.so:

> undefined symbol: for_open

>

> when i use write

> [*****@****] [test] >/usr/local/rsi/idl/bin/bin.linux.x86_64/idlde:

> symbo

> I lookup error: ./biblio.so: undefined symbol: for_write_seq_lis

>

> when i make call_external to a function without open or write

> all works !!!

> when i make SPAWN a program with open / write

> all works good !

>

> there are examples

> my function DLH.f90

> SUBROUTINE DLH(Ra,counter)

> ! If is defined in module types as integer, parameter ::

> lf=kind(1.d0)

> use types

> implicit none

> real(lf), intent(in) :: Ra

> integer, intent(out) :: counter

> write(*,*)

> write(*,*) "-> Utilisation de l'application dlhip."

> counter=2

> END SUBROUTINE DLH

```
>
> my wrapper xtemp.c
> #include <stdio.h>
> void dlhipo(int argc, void *argv[])
> {
>   extern void dlh_(); /* FORTRAN routine */
>   int *n;
>   float *f;
>   f = (float *) argv[0]; /*Ra*/
>   n = (int *) argv[1]; /*counter*/
>   dlh_(f, n);
> }
>
> my compile options
> gcc -c -fPIC -shared xtemp.c for C wrapper
> ifort -check bounds -c -mp1 -O3 -fPIC DLH.f90
> ld -shared xtemp.o DLH.o -o biblio.so
>
> my program when i use SPAWN
> spawn,['../test/a.out'],/NOSHELL
>
> program example
> use types
> implicit none
> real(lf):: Ra
> integer :: counter
> write(*,*)
> write(*,*) "-> Utilisation de l'application dlh."
> open(22,file='../local.txt')
> close(22)
> Ra=2
> counter=2
> end
>
>
> someone know why i have theses errors ?
> thx
>
```
