
Subject: caling f90

Posted by [woopik](#) on Tue, 04 Sep 2007 15:18:57 GMT

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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:  
sympo  
l 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
