
Subject: Call_external

Posted by [Harald Frey](#) on Thu, 05 Jun 1997 07:00:00 GMT

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I have changed from VMS to UNIX and now I got a problem with
call_external and
I'm not sure if it is an IDL or a UNIX problem. I work under
{ sparc sunos unix 4.0.1c}.

The FORTRAN program example.f according to the User's Guide 18-14

```
C -----  
  subroutine sum_array(array,n,sum)  
  
    integer*4 n  
    real*4 array(n),sum  
  
    sum=0.0  
    do i=1,n  
      sum=sum+ array(i)  
      print*, sum, array(i)  
    enddo  
  
    return  
  end
```

```
C -----
```

And the IDL program test_call.pro

```
; -----  
pro test_call  
  
x=findgen(10)  
s=call_external('example.so','_sum_array_',x,n_elements(x),/ f_value)  
  
end  
; -----
```

Compiling the FORTRAN program with (User's Guide 18-21)

```
f77 -c -pic example.f  
ld -o example.so example.o
```

Gives the error message

```
% ld -o example.so example.o  
Undefined          first referenced  
symbol             in file
```

```
__e_wsle          example.o
__s_wsle_nv       example.o
__do_l_out        example.o
ld: fatal: Symbol referencing errors. No output written to example.so
```

Trying
ld -G -o example.so example.o

compiles without error message but then in IDL I get

```
IDL>.r test_call
IDL> test_call
% CALL_EXTERNAL: Error loading sharable executable.
      Symbol: _sum_array_, File = example.so
      ld.so.1: /usr/local/idl/bin/bin.solaris2/idl: fatal:
dlsym:
      can't find symbol: _sum_array_
% Execution halted at: TEST_CALL      4 test_call.pro
%                               $MAIN$
```

Where is the problem?

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