
Subject: call_external: ld.so.1 relocation error
Posted by [rother](#) on Mon, 12 Feb 2001 22:12:01 GMT
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hi wizards!

I used 'call_external' very exceptionally yet. now I run into a 'relocation error' while executing 'call_external' -- with a very simple test-application too. the IDL 'call_external' demo is still running, but as my fortran-code is calling 'atan' (or other trig.-functions.), the 'ld.so.1' fails to resolve the symbol. 'make' is designed to call:

```
/opt/zrt_opt/SUNWspro/bin/f77 -pic -G test.f -o test.so -lf77 -lm -lc -lm77
test.f:
test:
test_slave:
```

and 'ldd' on 'test.so' seems to be fine:

```
libF77.so.4 => /opt/zrt_opt/SUNWspro/lib/libF77.so.4
libm.so.1 => /opt/zrt_opt/SUNWspro/lib/libm.so.1
libc.so.1 => /usr/lib/libc.so.1
libM77.so.2 => /opt/zrt_opt/SUNWspro/lib/libM77.so.2
libdl.so.1 => /usr/lib/libdl.so.1
/usr/platform/SUNW,Ultra-60/lib/libc_psr.so.1
```

but my 'test.pro' crashes IDL with:

```
IDL >> test
ld.so.1: /opt/rsi/idl_5.4/bin/bin.solaris2.sparc/idl: \
fatal: relocation error: \
file /home/mt/rother/prj/champ/Lib/ME/6/test.so: \
symbol __atanf: referenced symbol not found
```

Killed

(but 'atan' seems to be in 'libM77.so.2'!)

I'm running IDL 5.4 on a sparc box (solaris 2.7).
I apologize, if this is a FAQ (but I failed searching 'dejanews'
-- which seems to be gone).

many thanks for hints.
martin.

--

Martin Rother (rother@gfz-potsdam.de) 0331/ 288-1272 Division 2.3
GeoForschungsZentrum Potsdam, Germany

here the simple code:

-----cut here-----

```
SUBROUTINE test(argc, argv)
```

```
    IMPLICIT NONE
```

```
    !=====
```

```
    INTEGER*4    argc
```

```
    INTEGER*4    argv(*)
```

```
    INTEGER*4    j
```

```
    !=====
```

```
    j=LOC(argv)
```

```
    CALL test_slave
```

```
    . (
    .  %VAL(argv(1))
    . )
```

```
    return
```

```
    end
```

```
    !=====
```

```
!   SLAVE
```

```
    !=====
```

```
    SUBROUTINE test_slave
```

```
    . (
    .  result
    . )
```

```
    IMPLICIT NONE
```

```
    !=====
```

```
    REAL*8      result
```

```
    result = atan(0.5)
```

```
    return
```

```
    end
```

```
    !=====
```

```
!   EOF test.f
```

```
    !=====
```

-----cut here-----

```
pro test
```

```

;=====
;
;=====

result = 0.0D00

s = CALL_EXTERNAL(
    "/home/mt/rother/prj/champ/Lib/ME/6/test.so", $
    "test_", $
    result $
)

print, 'result = ', result

return
END
;=====
; EOF test
;=====

```
