
Subject: CALL_EXTERNAL Problem

Posted by [dean](#) on Mon, 09 Aug 1993 22:01:58 GMT

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I am attempting to use IDL to call a FORTRAN subroutine with IDL's CALL_EXTERNAL to read an raster image on a VAX/VMS system. However, I continue to get a "writable shareable images must be installed" error. Could you tell me what I maybe doing wrong?

```
***** \ *****
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***** *****
```

===== IDL error =====

```
%LIB-E-ACTIMAGE, error activating image $15$DIA2:[DEAN.IDL.EXTERNAL]IMX_IO.EXE;2
-SYSTEM-F-NOTINSTALL, writable shareable images must be installed
% CALL_EXTERNAL: Error in called routine.
%
```

===== FORTRAN code IMX_IO =====

```
      SUBROUTINE IMAGE_I(FILENAME,IMX,IXI,IYI,STATUS)
C
C   This routine uses IMX IPL routines ( C code ) to read an IMX formatted
C   raster image and passes it out as a 2x2 byte array.
C
      INCLUDE 'IPL.INC'
      CHARACTER*(*) FILENAME
      CHARACTER*1 NULL
      INTEGER      I,IXI,IYI,STATUS
      BYTE  IMAGE(IPL_RASTER)
      BYTE  BUFFI(1024),IMX(1024,1024)
      NULL = CHAR(0)
C
C----CONVERT IMAGE
C
      CALL IPL_READ_IMAGE (%REF(FILENAME//NULL), IMAGE, STATUS)
      IF (STATUS .NE. 0) RETURN
C
```

```

C    Open IMX image file
C
CALL IPL_GET_IMAGE_SIZE(IMAGE,IXI,IYI)
C
C    Move data into another binary array.
C
DO I = 1, IYI
CALL IPL_READ_IMAGE_REC(IMAGE, (I - 1), 1, BUFFI, STATUS)
IF (STATUS .NE. 0) RETURN
CALL LIB$MOVC3(IXI,BUFFI,IMX(1,I)) ! VAX/VMS Call !
ENDDO
C
C
RETURN
END

```

=====Command file to compile and link =====

```

$ for imx_io
$ link/map imx_io, ipl_lib, sys$input/opt/share
universal = image_i

```

===== Procedure that calls the FORTRAN Code =====

```

PRO display_imx, filename, colorname
iostat = CALL_EXTERNAL('imx_io', $
  DEFAULT='ud2:[dean.idl.external].exe', $
  'IMAGE_I',filename,image,imx_x,imx_y,ISTATUS)
PRINT, ISTATUS
PRINT, imx_x,imx_y
  window, 0, xsize = imx_x, ysize = imx_y, TITLE = filename
  TV, image, /ORDER
END

```

Subject: Re: call_external problem
 Posted by [zdv131](#) on Fri, 05 Jan 1996 08:00:00 GMT
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In article <DKK2w7.GME@Yuri.CC.Uni-Augsburg.DE>, ralfu@Physik.Uni-Augsburg.DE
 (Ralf Utermann) writes:

```

|> Hi all,
|>
|> I just found, that one of my old programs which used a
|> call_external to a fortran subprogram doesn't work anymore
|> with IDL 4.0. (under AIX3.2.5) I get the error message, that
|> it can't find my library -- although its definitely in the
|> current directory. I also cannot get the example to work, which

```

|> comes with the 4.0 distribution.
|> It worked fine upto 3.6.
|>
|> Thanks for help, Ralf
|>
|> --
|> Ralf Utermann
|>
|> _____
|> Universitaet Augsburg (Germany), Institut fuer Physik
|> Memmingerstr.6 "Speaking for me and nobody else"
|> D-86135 Augsburg Phone: +49-821-5977-235
|>
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Hallo

you will have to give the full filepath of the created shared library
(for example: filter.so is the name of the shared library und filter ist the
Fortran program you call)

```
spawn,'pwd',directory  
directory=directory+'/filter.so'  
indicator = Call_External( directory(0),'filter',.....
```

--

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