
Subject: CALL_EXTERNAL Problem

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

[View Forum Message](#) <> [Reply to Message](#)

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?

```
***** \ *****
Kelly Dean \
Cooperative Institute for Research in the Atmosphere ____\
Foothills Campus /|
Colorado State University /|
Fort Collins, CO 80523 /|
E-MAIL: DEAN%SOL.DNET@SIRIUS.CIRA.COLOSTATE.EDU | \
ph: 301-491-8408 | \
***** *****
```

===== 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

```
