
Subject: ps_star.pro no found on IDL71?

Posted by [dlopezaspe](#) on Fri, 20 Jan 2012 22:17:06 GMT

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Hello Everyone.

I have run script to generate many postscript file is to create a gis animator, My solution is simple my script run with script Dr. David Fanning P_star.pro psconfig.pro I try version 7 and runs IDL nw my version is 7.1 and not found I don't why?.....

```
PRO david_NDVIT_plot_rainbow
```

```
COMPILE_OPT STRICTARR
```

```
;
*****
; DESCRIPTION: Program to plot Landsat imagery
;
*****
; AUTHOR:      Stef Lhermitte
;
*****
; DATE:        2009/10/20
;
*****
; FORMATS
;
*****
F80='(80("-"))' & F120S='(120(" "))'
;
*****
; PARAMETERS
;
*****
ifolder = '/home/david/tesis/paper/mod13a3/'
ofolder = '/home/david/tesis/paper/mod13a3/ndvi_avg/ani/'
vector=  'home/david/tesis/paper/mod13a3/ndvi_avg/
provincias_wgs84_.evf'
filepattern='MOD13A3.B0.stack.masked_resam_p.hdr'
l7_band = [0]
;
*****
PRINT, FORMAT=F120S
if (FILE_TEST(ifolder, /DIRECTORY) ne 1) then begin
  PRINT, 'Input folder does not exist: ', ifolder
  PRINT, FORMAT=F120S
  return
endif
if (FILE_TEST(ofolder, /DIRECTORY) ne 1) then begin
```

```

PRINT, 'Output folder does not exist: ', ofolder
PRINT, FORMAT=F120S
return
endif
;
; *****
; Populate file list
;
; *****
files = FILE_SEARCH(ifolder+'*'+filepattern, COUNT=n_dates, /
FOLD_CASE)
if n_dates lt 1 THEN BEGIN
PRINT, 'No files encountered for : '
PRINT, ifolder+filepattern
RETURN
endif
;
; *****
; Process
;
; *****
; Extract files name
name = FILE_BASENAME(files[0],filepattern,/FOLD_CASE)
name = STRSPLIT(name,',',/EXTRACT)

print, files[0]

ENVI_OPEN_FILE, files[0], r_fid=fid
ENVI_FILE_QUERY, fid, dims=dims, ns=ns, nl=nl, nb=n_dates, bname=bname
map_info = ENVI_GET_MAP_INFO(fid=fid)

for date_i=0l, n_dates-1 do begin

    bname_i= Strmid(bname[date_i],48,7)
    print, bname_i

    image = ENVI_GET_DATA(fid=fid, pos=date_i, dims=dims)

    utmlimit=[map_info.mc[2],map_info.mc[2]+map_info.ps[0]*ns,ma p_info.mc[3],map_info.mc[3]-
map_info.ps[1]*nl]

; Modificar esta linea
imdisp_map, image, ofolder=ofolder, utmlimit=utmlimit,
name=name[0]+STRTRIM(string(date_i),2)+'NDVI',$
title='NDVI MODIS Time Series', subtitle=bname_i,
bartitle='2000-2010', ct=40, range=[1,80], /CLEANUP, /PLOTCOLORBAR, $

```

```

        vector=vector, vectcolor='Red', latdel=0.5

PRINT, FORMAT=F120S

endifor

END

>>>> >>>>>>>>
PRO imdisp_map, image, ofolder=ofolder, name=name, utmlimit=utmlimit,
$
    xsize=xsize, ysize=ysize, title=title, subtitle=subtitle,
bartitle=bartitle, $
    charsize=charsize, latdel=latdel, londel=londel, $
    ct=ct, range=range, gridcolor=gridcolor, vector=vector, $
    plotcolorbar=plotcolorbar, vectcolor=vectcolor,
horizontal=horizontal, cleanup=cleanup
COMPILE_OPT STRICTARR
;
; *****
; DESCRIPTION: Program to plot image in UTM with title
;
; *****
; AUTHOR:      Stef Lhermitte
;
; *****
; DATE:        2009/10/20
;
; *****
; FORMATS
;
; *****
F80='(80("-"))' & F120S='(120("*"))'
;
; *****
; PARAMETERS
;
; *****
IF ~KEYWORD_SET(ofolder) then ofolder = FILE_DIRNAME(filename,/
MARK_DIRECTORY)
IF ~KEYWORD_SET(xsize) then xsize=10
IF ~KEYWORD_SET(ysize) then ysize=10
IF ~KEYWORD_SET(title) then title=""
IF ~KEYWORD_SET(subtitle) then subtitle=""
IF ~KEYWORD_SET(bartitle) then bartitle=""
IF ~KEYWORD_SET(charsize) then charsize=1
IF ~KEYWORD_SET(latdel) then latdel=.05

```

```

IF ~KEYWORD_SET(londel) then londel=latdel
IF ~KEYWORD_SET(ct) then ct=0
IF ~KEYWORD_SET(gridcolor) then gridcolor='Black'
IF ~KEYWORD_SET(cleanup) then cleanup=0
IF ~KEYWORD_SET(plotcolorbar) then plotcolorbar=0
IF ~KEYWORD_SET(horizontal) then horizontal=0
IF ~KEYWORD_SET(vector) then vector='xxxxx'
IF ~KEYWORD_SET(attr_name) then attr_name='id'
IF ~KEYWORD_SET(vectcolor) then vectcolor='White'
IF (~KEYWORD_SET(utmlimit)) then begin
    print, "UTM limit not set"
    RETURN
endif
;
; *****
; PRE-TEST
;
; *****
IF FILE_TEST(ofolder, /DIRECTORY) ne 1 then begin
    PRINT, 'Ofolder does not exist: ', ofolder
    return
endif
IF ~KEYWORD_SET(name) then name=FILE_BASENAME(filename,ext, /
FOLD_CASE)
;
; *****
; START PLOTTING
;
; *****
ps_start, filename=ofolder+name+'.ps', XSize=xsize,YSize=ysize

; Find the image dimensions.
s = Size(image)
if (s[0] gt 2) then begin
    s = s[2:3]
    onelayer=0
endif else begin
    onelayer=1
    s = s[1:2]
endelse
print, "Image dimension : "+STRING(s)

; Read min-max for range
IF (~KEYWORD_SET(range) and onelayer eq 1) then begin
    minRange = MIN(image, MAX=maxRange)
    range=[minRange,maxRange]
    print, "Image range : "+STRING(range)
endif

```

```

; Origin in upper-left in TIFF file. I want to move to bottom left
; for my own sanity.
xOrigin = utmlimit[0]
yOrigin = utmlimit[2]
xEnd = utmlimit[1]
yEnd = utmlimit[3]
xCenter = (xEnd - xOrigin) / 2.0 + xOrigin
yCenter = (yEnd - yOrigin) / 2.0 + yOrigin

; Map the corners in lat/lon space.
utmMap = MAP_PROJ_INIT('UTM', DATUM=8, ZONE=-19)
lonlat = MAP_PROJ_INVERSE([xOrigin, xOrigin, xEnd, xEnd,   xCenter],
$
    [yOrigin, yEnd,   yEnd, yOrigin, yCenter],
$
    MAP_STRUCTURE=utmMap)

Print, 'Latitude: ', Reform(lonlat[1,0:3])
Print, 'Longitude: ', Reform(lonlat[0,0:3])
Print, 'Center:   ', lonlat[0,4] , lonlat[1,4]

; The limit is the min and max of these latitudes and longitudes.
minLat = Min(lonlat[1,*], MAX=maxLat)
minLon = Min(lonlat[0,*], MAX=maxLon)
limit = [minLat, minLon, maxLat, maxLon]

; Set up a map projection space, using a limit.
utmMap = MAP_PROJ_INIT('UTM', DATUM=8, ZONE=-19, LIMIT=limit)

uv_box = [xOrigin, yOrigin, xEnd, yEnd]
Print, 'MAP_PROJ_INIT UV_BOX: ', uv_box

loadct, ct
; Display the image.
imdisp, image, range=range, out_pos=pos, /erase, /ORDER

; Pot colorbar
if plotcolorbar then begin
    if horizontal eq 1 then colorbar,format='(f6.2)',range=range,
charsize=charsize, /top $
    else colorbar,format='(f6.1)',range=range, charsize=charsize, /
vertical
endif

; Use the UV_BOX of Map_Proj_Image to set up the data coordinate

```



```

;
;
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USE OF THIS
;
; SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
;
;*****
;
;
;+
; The purpose of this program is to allow the user to configure the
PostScript device

```

```

; with or without a graphical user interface. This function is
essentially a simplified
; wrapper to the FSC_PSConfig object, which provides a powerful
graphical user interface
; for configuring the IDL PostScript device.
;
; :Categories:
;   Utilities, Graphics
;
; :Returns:
;   A structure of keywords, appropriate for configuring the
PostScript device, is returned.
;   These keywords are generally passed to the PostScript device by
means of keyword inheritance::
;
;   keywords = PSConfig() ; Obtain PostScript keywords
;   Set_Plot, 'PS'        ; Select the PostScript device
;   Device, _Extra=keywords ; Configure the PostScript device
with keywords
;
; :Params:
;   psubject: in, optional, type=object
;   An FSC_PSCONFIG object reference of the sort returned by this
function
;   can be passed as an argument to the function. It is up to the
user to destroy
;   the object if passed as an argument. Passing an object
argument essentially
;   by-passes the rest of the keywords and the GUI will take its
initial values
;   from the values in the input object. This allows the
programmer to keep track
;   of how the user last configured the GUI and to set it up in
exactly the same
;   way the next time the GUI is invoked.
;
; :Keywords:
;   AvantGarde: in, optional, type=boolean, default=0
;   Set this keyword to select the AvantGarde PostScript font.
;   Bits_per_Pixel: in, optional, type=integer, default=8
;   The number of image bits saved for each image pixel: 2, 4, or
8.
;   Bold: in, optional, type=boolean, default=0
;   Set this keyword to select a bold PostScript font.
;   BookStyle: in, optional, type=boolean, default=0
;   Set this keyword to specify that the book version of the
current PostScript
;   font should be used.

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; Bkman: in, optional, type=boolean, default=0
;   Set this keyword to select the Bookman PostScript font.
; Cancel: out, optional, type=boolean, default=0
;   If this keyword is set to 1, the user hit the Cancel button
in the GUI.
; CMYK: in, optional, type=boolean, default=0
;   Set this keyword to use CMYK colors instead of RGB colors in
the output.
; Color: in, optional, type=boolean, default=1
;   Set this keyword to 1 to select color or gray-scale output.
; Courier: in, optional, type=boolean, default=0
;   Set this keyword to select the Courier font.
; Debug: in, optional, type=boolean, default=0
;   Set this keyword to get traceback information when errors are
encountered.
; Decomposed: in, optional, type=boolean, default=0
;   Set this keyword to turn on 24-bit color support. Set to zero
to select indexed color
;   support. Applies only to IDL versions 7.1 and higher.
; DefaultSetup: in, optional, type=structure
;   Set this keyword to the "name" of a default style. Current
styles (you can easily
;   create and add your own to the source code) are the
following::
;   "System (Portrait)" - The normal "default" system set-up.
Also, "System".
;   "System (Landscape)" - The normal "default" landscape
system set-up.
;   "Centered (Portrait)" - The window centered on the page.
Also, "Center" or "Centered".
;   "Centered (Landscape)" - The window centered on the
landscape page. Also, "Landscape".
;   "Square (Portrait)" - A square plot, centered on the page.
;   "Square (Landscape)" - A square plot, centered on the
landscape page.
;   "Figure (Small)" - A small encapsulated figure size,
centered on page. Also, "Encapsulated" or "Encapsulate".
;   "Figure (Large)" - A larger encapsulated figure size,
centered on page. Also, "Figure".
;   "Color (Portrait)" - A "centered" plot, with color turned
on. Also, "Color".
;   "Color (Landscape)" - A "centered" landscape plot, with
color turned on.
; Demi: in, optional, type=boolean, default=0
;   Set this keyword to select the Demi font style.
; Directory: in, optional, type=string
;   Set this keyword to the name of the starting directory. The
current directory is used by default.

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; Encapsulated: in, optional, type=boolean, default=0
; Set this keyword to 1 to select Encapsulated PostScript
output.
; European: in, optional
; This keyword is depreciated in favor of `Metric`.
; Filename: in, optional, type=string, default='idl.ps'
; Set this keyword to the name of the PostScript file you wish
to create.
; FontInfo: in, optional, type=boolean, default=0
; Set this keyword if you wish to see font information in the
GUI interface. Since font
; information has to be interpreted to be used, most users
prefer not to see this information
; on the GUI.
; FontSize: in, optional, type=integer, default=12
; Set this keyword to the desired font size. Values should be
between 6 and 32.
; FontType: out, optional, type=integer
; This keyword is both an input and an output keyword. It
allows you to specify the font
; type you wish to use, and it also returns the font type the
user selected in the GUI.
; The user is responsible for configuring the PostScript
graphical commands with the appropriate font
; type, because it cannot be done via the normal Device keyword
channel. Normally, this is set to
; !P.Font.
; Group_Leader: in, optional, type=long
; Set this keyword to the identifier of a widget group leader.
This program will be destroyed
; if the group leader application is destroyed.
; Helvetica: in, optional, type=boolean, default=0
; Set this keyword to select the Helvetica PostScript font.
; Inches: in, optional, type=boolean, default=1
; Set this keyword to indicate sizes and offsets are in inches
as opposed to centimeters.
; Set to zero by default if the `Metric` keyword is set.
; Italic: in, optional, type=boolean, default=0
; Set this keyword to select italic type font styling.
; Isolatin: in, optional, type=boolean, default=0
; Set this keyword to select ISOlatin1 encoding.
; Landscape: in, optional, type=boolean, default=0
; Set this keyword to select Landscape page output. Portrait
page output is the default.
; Light: in, optional, type=boolean, default=0
; Set this keyword to select the Light PostScript style for the
font.
; Match: in, optional, type=boolean, default=0

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;   If this keyword is set, the initial PostScript window will
match the aspect ratio of the
;   current graphics window.
;   Medium: in, optional, type=boolean, default=0
;   Set this keyword to select the Medium PostScript style for
the font.
;   Metric: in, optional, type=boolean, default=0
;   Set this keyword to indicate metric mode (i.e., A4 page and
centimeter units).
;   Name: in, optional, type=string
;   Set this keyword to the "name" of the created FSC_PSCconfig
object.
;   Narrow: in, optional, type=boolean, default=0
;   Set this keyword to select the Narrow font style.
;   NoGUI: in, optional, type=boolean, default=0
;   Set this keyword if you don't want a graphical user
interface, but just want to get the
;   return structure of keywords.
;   Oblique: in, optional, type=boolean, default=0
;   Set this keyword to select the Oblique font style.
;   PageType: in, optional, type=string, default='LETTER'
;   Set this keyword to the "type" of page. Possible values are::
;   "Letter" - 8.5 by 11 inches. (Default, unless the Metric
keyword is set.)
;   "Legal" - 8.5 by 14 inches.
;   "Ledger" - 11 by 17 inches.
;   "A4" - 21.0 by 29.7 centimeters. (Default, if the Metric
keyword is set.)
;   Palatino: in, optional, type=boolean, default=0
;   Set this keyword to select the Palatino font.
;   Preview: in, optional, type=integer, default=0
;   Set this keyword to select the type of PostScript preview to
add to the file. Values 0, 1, or 2.
;   Adding previews to PostScript files created in IDL is not
recommended as the results are always
;   poor. There are better methods to add PostScript previews
using other software, such as GhostView.
;   Schoolbook: in, optional, type=boolean, default=0
;   Set this keyword to select the Schoolbook PostScript font.
;   Set_Font: in, optional, type=string
;   Set this keyword to the name of a PostScript hardware or true-
type font you want to use.
;   Note that if you specify a true-type font, you must also set
the `TrueType` keyword.
;   Symbol: in, optional, type=boolean, default=0
;   Set this keyword to select the Symbol PostScript font.
;   Times: in, optional, type=boolean, default=0
;   Set this keyword to select the Times PostScript font.

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;   TrueType: in, optional, type=boolean, default=0
;   Set this keyword to use true-type fonts in the PostScript
output. Set the name of the font
;   with the `Set_Font` keyword.
;   XOffset: in, optional, type=float
;   Set this keyword to the X Offset. Uses "System (Portrait)"
defaults. (Note: offset
;   calculated from lower-left corner of page.)
;   XSize: in, optional, type=float
;   Set this keyword to the X size of the PostScript "window".
Uses "System (Portrait)" defaults.
;   YOffset: in, optional, type=float
;   Set this keyword to the Y Offset. Uses "System (Portrait)"
defaults. (Note: offset
;   calculated from lower-left corner of page.)
;   YSize: in, optional, type=float
;   Set this keyword to the Y size of the PostScript "window".
Uses "System (Portrait)" defaults.
;   ZapfChancery: in, optional, type=boolean, default=0
;   Set this keyword to select the ZapfChancery PostScript font.
;   ZapfDingbats: in, optional, type=boolean, default=0
;   Set this keyword to select the ZapfDingbats PostScript font.
;
;:Examples:
;   To have the user specify PostScript configuration parameters, use
;   the program like this::
;
;   keywords = PSConfig(Cancel=cancelled)
;   IF cancelled THEN RETURN
;   thisDevice = !D.Name
;   Set_Plot, 'PS'
;   Device, _Extra=keywords
;   Plot, findgen(11) ; Or whatever graphics commands you use.
;   Device, /Close_File
;   Set_Plot, thisDevice
;
;:Author:
;   FANNING SOFTWARE CONSULTING::
;   David W. Fanning
;   1645 Sheely Drive
;   Fort Collins, CO 80526 USA
;   Phone: 970-221-0438
;   E-mail: david@idlcoyote.com
;   Coyote's Guide to IDL Programming: http://www.idlcoyote.com
;
;:History:
;   Change History::
;   Written by David W. Fanning, 31 January 2000.

```

```

; Added NOGUI keyword to allow default keywords to be obtained
without
; user interaction. 11 Oct 2004. DWF.
; Added CMYK option 24 August 2007. Requires LANGUAGE_LEVEL=2
printer. L. Anderson
; Updated for IDL 7.1 and 24-bit color PostScript support. 24
May 2009. DWF.
; Added MATCH keyword. 14 Dec 2010. DWF.
; Changed ENCAPSULATE keyword to ENCAPSULATED, which is what I
always type! 29 Jan 2011. DWF.
; Depreciated EUROPEAN keyword in favor of METRIC. 31 Jan 2011.
DWF.
;
;:Copyright:
; Copyright (c) 2000-2012, Fanning Software Consulting, Inc.
;-
FUNCTION PSConfig, psObject,      $ ; A FSC_PSCONFIG object.
  AvantGarde=avantgarde,      $ ; Set this keyword to select
the AvantGarde font.
  Bits_per_Pixel=bits_per_pixel,  $ ; The number of image bits
saved for each image pixel: 2, 4, or 8.
  Bold=bold,                  $ ; Set this keyword to select
the Bold font style.
  BookStyle=book,             $ ; Set this keyword to select
the Book font style.
  Bkman=bookman,              $ ; Set this keyword to select
the Bookman font.
  Cancel=cancelled,           $ ; This output keyword will be
set to 1 if the user CANCELS. Set to 0 otherwise.
  CMYK=cmyk,                  $ ; Set this keyword to use CMYK
colors instead of RGB. (Requires LANGUAGE_LEVEL=2 printer.)
  Color=color,                 $ ; Set this keyword to select
Color PostScript output.
  Courier=courier,             $ ; Set this keyword to select
the Courier font.
  Debug=debug,                 $ ; Set this keyword to get
traceback information when errors are encountered.
  Decomposed=decomposed,       $ ; Set this keyword to select
24-bit color PostScript support. (IDL 7.1 and above.)
  DefaultSetup=defaultsetup,   $ ; Set this keyword to the
"name" of a default style.
  Demi=demi,                   $ ; Set this keyword to select
the Demi font style.
  Directory=directory,         $ ; Set this keyword to the name
of the starting directory. Current directory by default.
  Encapsulated=encapsulated,    $ ; Set this keyword to select
Encapsulated PostScript output.
  European=european,           $ ; This keyword depreciated in

```

favor of "metric".

Filename=filename, \$; Set this keyword to the name of the file. Default: 'idl.ps'

FontInfo=fontinfo, \$; Set this keyword if you want font information in the FSC_PSCONFIG GUI.

FontSize=fontsize, \$; Set this keyword to the font size. Between 6 and 36. Default is 12.

FontType=fonttype, \$; An input/output keyword that will have the FontType. Will be !P.Font unless FontInfo is selected.

Group_Leader=group_leader, \$; The group leader of the PSCONFIG modal widget.

Helvetica=helvetica, \$; Set this keyword to select the Helvetica font.

Inches=inches, \$; Set this keyword to indicate sizes and offsets are in inches as opposed to centimeters.

Italic=italic, \$; Set this keyword to select the Italic font style.

Isolatin=isolatin, \$; Set this keyword to select ISOlatin1 encoding.

Landscape=landscape, \$; Set this keyword to select Landscape output.

Light=light, \$; Set this keyword to select the Light font style.

Match=match, \$; Set this keyword to match the aspect ratio of the current graphics window.

Medium=medium, \$; Set this keyword to select the Medium font style.

Metric=metric, \$; Set this keyword to indicate metric mode (i.e., A4 page and centimeter units).

Name=name, \$; The "name" of the object.

Narrow=narrow, \$; Set this keyword to select the Narrow font style.

NoGUI=nogui, \$; Return the default keywords directly, without user interaction.

Oblique=oblique, \$; Set this keyword to select the Oblique font style.

PageType=pagetype, \$; Set this keyword to the "type" of page: 'Letter', 'Legal', 'Ledger', or 'A4'.

Palatino=palatino, \$; Set this keyword to select the Palatino font.

Preview=preview, \$; Set this keyword to select Preview mode: 0, 1, or 2.

Schoolbook=schoolbook, \$; Set this keyword to select the Schoolbook font.

Set_Font=set_font, \$; Set this keyword to the name of a font passed to PostScript with Set_Plot keyword.

Symbol=symbol, \$; Set this keyword to select the Symbol font.

Times=times, \$; Set this keyword to select
the Times font.

TrueType=truetype, \$; Set this keyword to select
True-Type fonts.

XOffset=xoffset, \$; Set this keyword to the
XOffset. (Note: offset calculated from lower-left corner of page.)

XSize=xsize, \$; Set this keyword to the X
size of the PostScript "window".

YOffset=yoffset, \$; Set this keyword to the
YOffset. (Note: offset calculated from lower-left corner of page.)

YSize=ysize, \$; Set this keyword to the Y
size of the PostScript "window".

ZapfChancery=zapfchancery, \$; Set this keyword to select
the ZapfChancery font.

ZapfDingbats=zapfdingbats ; Set this keyword to select
the ZapfDingbats font.

On_Error, 2

; Depreciated keywords.

IF N_Elements(metric) EQ 0 THEN metric = Keyword_Set(european) ELSE
metric = Keyword_Set(metric)

; Cannot have landscape orientation with encapsulated PostScript
output.

IF Keyword_Set(encapsulated) THEN landscape = 0

; Did the user ask us to match the aspect ratio of the current
graphics window?

IF Keyword_Set(match) THEN BEGIN

 ; Is this a device that supports windows?

 IF (!D.Flags AND 256) NE 0 THEN BEGIN

 ; Is there a current graphics window?

 IF !D.Window GE 0 THEN BEGIN

 IF N_Elements(inches) NE 0 THEN cm = 1 -

Keyword_Set(inches)

 keywords = PSWindow(Landscape=landscape, CM=cm,

Metric=metric)

 xsize = keywords.xsize

 ysize = keywords.ysize

 xoffset = keywords.xoffset

 yoffset = keywords.yoffset

 inches = keywords.inches

 landscape = keywords.landscape

 portrait = keywords.portrait

 ENDIF

ENDIF
ENDIF

```
IF N_Elements(psObject) EQ 0 THEN BEGIN
  psObject = Obj_New('FSC_PSCONFIG', $
    AvantGarde=avantgarde,      $
    Bits_per_Pixel=bits_per_pixel,  $
    Bold=bold,                  $
    BookStyle=book,             $
    Bkman=bookman,              $
    CMYK=cmyk,                  $
    Color=color,                $
    Courier=courier,             $
    Debug=debug,                $
    Decomposed=decomposed,      $
    DefaultSetup=defaultsetup,  $
    Demi=demi,                  $
    Directory=directory,        $
    Encapsulated=encapsulated,  $
    Filename=filename,          $
    FontSize=fontsize,          $
    FontType=fonttype,          $
    Helvetica=helvetica,        $
    Inches=inches,              $
    Italic=italic,              $
    Isolatin=isolatin,          $
    Landscape=landscape,        $
    Light=light,                $
    Medium=medium,              $
    Metric=metric,              $
    Name=name,                  $
    Narrow=narrow,              $
    Oblique=oblique,            $
    PageType=pagetype,          $
    Palatino=palatino,          $
    Preview=preview,            $
    Schoolbook=schoolbook,      $
    Set_Font=set_font,          $
    Symbol=symbol,              $
    Times=times,                $
    TrueType=truetype,          $
    XOffset=xoffset,            $
    XSize=xsize,                $
    YOffset=yoffset,            $
    YSize=ysize,                $
    ZapfChancery=zapfchancery,  $
    ZapfDingbats=zapfdingbats )
  Create = 1

```



```

;
;
; AUTHOR:
;
; FANNING SOFTWARE CONSULTING
; David Fanning, Ph.D.
; 1645 Sheely Drive
; Fort Collins, CO 80526 USA
; Phone: 970-221-0438
; E-mail: davidf@dfanning.com
; Coyote's Guide to IDL Programming: http://www.dfanning.com/
;
;
; CATEGORY:
;
; Graphics, File Output, PostScript
;
; CALLING SEQUENCE:
;
; PS_START
; Various graphics commands here...
; PS_END
;
; KEYWORD PARAMETERS FOR PS_START:
;
; FONT:      Set this to the type of font you want. A -1
selects Hershey
;            fonts, a 0 selects hardware fonts (Helvetica,
normally), and
;            a 1 selects a True-Type font. Set to 1 by
default.
;
; GUI:       The default behavior is to use PSCONFIG to
configure the
;            PostScript device silently. If you wish to allow
the user
;            to interactively configure the PostScript device,
set this
;            keyword.
;
; NOMATCH:   Normally, PS_Start will try to "match" the
aspect ratio of the
;            PostScript file "window" to the current display
window. If this
;            keyword is set, then this doesn't occur, giving
the user the
;            option of specifying the size and offsets of the
PostScript
;            window directly though appropriate keywords.
;
;

```

```

;   QUIET:      If set, informational messages are not set.
;
;   SCALE_FACTOR: Set this to the PostScript scale factor. By
;   default: 1.
;
;   TT_FONT:    The name of a true-type font to use of FONT=1.
;   By default, "TIMES".
;
;   Any keyword supported by PSCONFIG can be used to configure the
;   PostScript device.
;   Common keywords would include FILENAME, XSIZE, YSIZE, XOFFSET,
;   YOFFSET, etc. See
;   the PSCONFIG documentation for details. If size keywords are
;   used, you *must* set
;   the NOMATCH keyword.
;
; COMMON BLOCKS:
;
;   _$FSC_PS_START_ Contains the PS_STRUCT structure for
;   communication between
;   PS_START and PS_END.
;
; SIDE EFFECTS:
;
;   When PS_START is called, the current graphics device is set to
;   "PS" (the PostScript
;   device). When PS_END is called the current graphics device is
;   returned to the device
;   in effect when PS_START was called.
;
; RESTRICTIONS:
;
;   Requires numerous programs from the Coyote Library. To convert
;   PostScript files
;   to PNG, JPEG, and TIFF files requires ImageMagick be installed
;   on your
;   computer and configured correctly. You can download Coyote
;   Library programs here:
;
;   http://www.dfanning.com/programs/coyoteprograms.zip
;
;   ImageMagick can be found here:
;
;   http://www.imagemagick.org/script/index.php
;
;   NOTE: In this version of PS_START, I have added the "alpha"
;   option to the ImageMagick
;   command. This is a relatively recent addition to the convert

```

command. (Added in ImageMagick
; version 6.3.4). Your version of ImageMagick may not allow it.
If so, simply comment out the
; alpha command in the code below (on or about line 242), or
uncomment it, as the case may be.

;
; EXAMPLE:

;
; To create a line plot in a PostScript file named lineplot.ps
and
; also create a PNG file named lineplot.png for display in a
browser,
; type these commands.

;
; PS_Start, FILENAME='lineplot.ps'
; Plot, Findgen(11), COLOR=FSC_Color('navy'), /NODATA,
XTITLE='Time', YTITLE='Signal'
; OPlot, Findgen(11), COLOR=FSC_Color('indian red')
; OPlot, Findgen(11), COLOR=FSC_Color('olive'), PSYM=2
; PS_End, /PNG

;
; NOTES:

;
; You can easily configure any modifications you like for your
PostScript output
; by setting fields in the plot and axis system variables (!P, !
X, !Y, and !Z).
; The modifications currently made by default in this program
are these:

;
;
; !P.Thick = 2
; !P.CharThick = 2
; !P.Charsize = 1.25 (or 1.5 if in UNIX)
; !X.Thick = 2
; !Y.Thick = 2
; !Z.Thick = 2
; !P.Font = 0

;
; MODIFICATION HISTORY:

;
; Written by: David W. Fanning, 20 May 2008.
; Slight modification to allow filenames with spaces in them.
; Added NoMatch keyword. 17 March 2009. DWF.
; Added a number of keywords to make these commands more
configurable. 19 March 2009. DWF.
; Only set thickness system variables if starting system
variables are set to their
; default values (namely, 0). This allows users to set their

```

own system variables
;      before they call PS_START, rather than after. 23 March
2009. DWF.
;      Moved PS_END to its own file to allow the IDLExBr_Assistant to
work properly. 7 April 2009. DWF.
;-
;
;
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; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

```

```

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DAMAGE.          ;

```

```

,*****
,

```

```

PRO PS_START, $
  FONT=font, $
  GUI=gui, $
  NOMATCH=nomatch, $
  QUIET=quiet, $
  SCALE_FACTOR=scale_factor, $
  TT_FONT=tt_font, $
  _EXTRA=extra

```

```

COMMON _$FSC_PS_START_, ps_struct

```

```

; PostScript hardware fonts by default.
SetDefaultValue, font, 0

```

```

; Use Helvetica True-Type font by default.
IF font EQ 1 THEN SetDefaultValue, tt_font, 'Helvetica'

```

```

gui = Keyword_Set(gui)
quiet = Keyword_Set(quiet)

```

```

; Define the PS structure.
IF N_Elements(ps_struct) EQ 0 THEN ps_struct = {FSC_PS_SETUP}

```

```

; If the setup flag is on, then we have to close the previous
; start command before we can continue.
IF ps_struct.setup EQ 1 THEN PS_END

```

```

; Save current setup information in the PS_STRUCTURE structure.
ps_struct.setup = 1
ps_struct.currentDevice = !D.Name
ps_struct.p = !P
ps_struct.x = !X
ps_struct.y = !Y
ps_struct.z = !Z

```

```

; Change any parameters you feel like changing.
IF ps_struct.p.thick EQ 0 THEN !P.Thick = 2
IF ps_struct.p.charthick EQ 0 THEN !P.Charthick = 2
IF ps_struct.p.charsize EQ 0 THEN !P.Charsize = 1.25
IF ps_struct.x.thick EQ 0 THEN !X.Thick = 2

```

```

IF ps_struct.y.thick EQ 0 THEN !Y.Thick = 2
IF ps_struct.z.thick EQ 0 THEN !Z.Thick = 2

; Set the true-type font.
thisWindow = !D.Window
IF thisWindow EQ -1 AND ((!D.Flags AND 256) NE 0) THEN BEGIN
    Window, /FREE, /PIXMAP
    pixmap = !D.Window
ENDIF
!P.Font = font
Device, Set_Font=tt_font, /TT_FONT
IF N_Elements(pixmap) NE 0 THEN WDelete, pixmap

; Configure the PostScript Device
cancelled = 0
IF ~Keyword_Set(nomatch) THEN BEGIN
    IF !D.X_Size GT !D.Y_Size THEN landscape = 1 ELSE landscape = 0
    sizes = PSWindow(_Extra=extra, LANDSCAPE=landscape)
    keywords = PSConfig(_Extra=extra, INCHES=sizes.inches,
XSIZE=sizes.xsize, YSIZE=sizes.ysize, $
        XOFFSET=sizes.xoffset, YOFFSET=sizes.yoffset,
Cancel=cancelled, NOGUI=(~gui), LANDSCAPE=landscape)
    ENDIF ELSE BEGIN
        keywords = PSConfig(_Extra=extra, Cancel=cancelled,
NOGUI=(~gui))
    ENDELSE
    IF cancelled THEN BEGIN
        PS_END
        RETURN
    ENDIF

; Let them know where the output will be.
IF ~quiet THEN Print, 'PostScript output will be created here: ',
keywords.filename

Set_Plot, 'PS'
Device, _EXTRA=keywords

; What about scale factor?
IF N_Elements(scale_factor) NE 0 THEN $
    DEVICE, SCALE_FACTOR=scale_factor ELSE $
    DEVICE, SCALE_FACTOR=1

; Store filename.
ps_struct.filename = keywords.filename
ps_struct.landscape = Fix(keywords.landscape)
ps_struct.quiet = Fix(quiet)

```

END

my question is compatibility ps_star IDL 7.1?
Thanks in Advanced
