
Subject: Re: IDL and PDF

Posted by [Steve Worland](#) on Tue, 16 Oct 2001 08:43:09 GMT

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

Paul van Delst wrote:

> Todd Clements wrote:

>>

>> Steve Worland <worley@maths.ex.ac.uk> wrote:

>>

>>> Does anyone know any way of producing a .pdf output using IDL, or any

>>> way of converting .ps to .pdf but keeping the graphics looking nice?

>>

>> Steve -

>>

>> My favorite answer is to use ghostscript. If you're on some sort of UNIX

>> box, here's your command line:

>>

>> gs -sDEVICE=pdfwrite -dBATCH -dNOPAUSE -q -r 72 -sOutputFile=outFileName

>> inputFileName

>>

>> where the 72 is the resolution (in dpi) you want your graphics rendered

>> at, inputFileName is the name of the .ps file you've created, and

>> outFileName is the name of the PDF you want created.

>>

>> I create this string at run time with the appropriate file names and

>> resolution:

>>

>> str = 'gs -sDEVICE='+device+' -dBATCH -dNOPAUSE -q -r'+ \$

>> strtrim(fix(res),2)+' -sOutputFile='+ \$

>> strippedFileName+extension+' '+ fileList[i]

>>

>> and then use spawn to execute it.

>

> Note: Some systems may not like the space after the "-r" in the example above.

>

> Or use the Unix "convert" utility (sorry for the length of the following):

>

> % man convert

>

> convert(1) convert(1)

>

> NAME

> convert - converts an input file using one image format to an output file with the
> same or differing image format.

>

> SYNOPSIS

> convert [options ...] file [file...] file

```

>
> DESCRIPTION
>   convert converts an input file using one image format to an output file with the
>   same or differing image format.
>
>   convert recognizes the following image formats:
>
>   Tag   Description
>   -----
>   AVS   AVS X image file.
>   BIE+  Joint Bi-level Image experts Group file interchange format.
>   BMP+  Microsoft Windows bitmap image file.
>   BMP24+ Microsoft Windows 24-bit bitmap image file.
>   CGM   Computer Graphics Metafile.
>   CMYK  Raw cyan, magenta, yellow, and black bytes.
>   DCX+  ZSoft IBM PC multi-page Paintbrush file.
>   DIB   Microsoft Windows bitmap image file.
>   DICOM Medical image file.
>   EPDF  Encapsulated Portable Document Format.
>   EPI   Adobe Encapsulated PostScript Interchange format.
>   EPS   Adobe Encapsulated PostScript file.
>   EPS2  Adobe Level II Encapsulated PostScript file.
>   EPSF  Adobe Encapsulated PostScript file.
>   EPSI  Adobe Encapsulated PostScript Interchange format.
>   EPT   Adobe Encapsulated PostScript Interchange format with TIFF preview.
>   FAX+  Group 3.
>   FIG   TransFig image format.
>   FITS  Flexible Image Transport System.
>   FPX   FlashPix Format.
>   GIF+  CompuServe graphics interchange format; 8-bit color.
>   GIF87+ CompuServe graphics interchange format; 8-bit color (version 87a).
>   GRAY  Raw gray bytes.
>   GRANITE
>       granite texture.
>   HDF+  Hierarchical Data Format.
>   HISTOGRAM
>   HPGL  HP-GL plotter language.
>   HTML  Hypertext Markup Language with a client-side image map.
>   JBIG+ Joint Bi-level Image experts Group file interchange format.
>   JPEG  Joint Photographic Experts Group JFIF format; compressed 24-bit color.
>   ICO   Microsoft icon.
>   LABEL text image.
>   MAP   Red, green, and blue colormap bytes followed by the image colormap indexes.
>   MIFF+ Magick image file format. MNG Multiple-image Network Graphics.
>   MONO  Bi-level bitmap in least-significant-byte (LSB) first order.
>   MPEG+ Motion Picture Experts Group file interchange format.
>   MTV+  MTV Raytracing image format.
>   NETSCAPE

```

- > Netscape 216 color cube.
- > NULL NULL image.
- > PBM+ Portable bitmap format (black and white).
- > PCD Photo CD. The maximum resolution written is 512x768 pixels.
- > PCL Page Control Language.
- > PCX ZSoft IBM PC Paintbrush file.
- > PDF+ Portable Document Format.
- > PGM+ Portable graymap format (gray scale).
- > PICT Apple Macintosh QuickDraw/PICT file.
- > PIX Alias/Wavefront RLE image format.
- > PLASMA plasma fractal image. Specify the base color as the filename (e.g.
 plasma:gray). Use fractal to initialize to a random value (e.g.
 plasma:fractal).
- > PNG Portable Network Graphics.
- > PNM+ Portable anymap.
- > PPM+ Portable pixmap format (color).
- > PS+ Adobe PostScript file.
- > PSD Adobe Photoshop bitmap file.
- > PS2+ Adobe Level II PostScript file.
- > P7 Xv's visual schnauzer format.
- > RAD Radiance image format.
- > RGB Raw red, green, and blue bytes.
- > RGBA Raw red, green, blue and matte bytes.
- > RLA Alias/Wavefront image file; read only
- > RLE Utah Run length encoded image file; read only.
- > SGI+ Irix RGB image file.
- > SHTML Hypertext Markup Language with a client-side image map.
- > SUN+ SUN Rasterfile.
- > TEXT raw text file; read only.
- > TGA+ Truevision Targa image file.
- > TIFF+ Tagged Image File Format.
- > TIFF24+
 24-bit Tagged Image File Format.
- > TILE tile image with a texture.
- > TIM PSX TIM file.
- > TTF TrueType font file.
- > UIL X-Motif UIL table.
- > UYVY Interleaved YUV.
- > VICAR read only.
- > VID Visual Image Directory.
- > VIFF+ Khoros Visualization image file.
- > WIN select image from or display image to your computer screen.
- > X select image from or display image to your X server screen.
- > XC constant image of X server color. Specify the desired color as the filename
 (e.g. xc:yellow).
- > XBM X11 bitmap file.
- > XPM X Windows system pixmap file (color).
- > XWD X Windows system window dump file (color).

> YUV+ CCIR 601 4:1:1 file.
>
> I use IDL 5.4.1 and use convert to create GIF output of my pretty PostScript files (which have
> always looked better than IDL produced GIF files if you can handle the larger file sizes).
> Works fine for PS->PDF too (lathough you may have to dick about with fonts
>
> cheers,
>
> paulv
>
> --
> Paul van Delst Religious and cultural
> CIMSS @ NOAA/NCEP purity is a fundamentalist
> Ph: (301)763-8000 x7274 fantasy
> Fax:(301)763-8545 V.S.Naipaul

Thankyou all for your help!!!
