The pstool package

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Abstract

This package defines the \psfragfig user command for including EPS files that use psfrag features in a pdflATEX document. The command \pstool can be used to define other commands with similar behaviour.

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Part I

User documentation

1 Introduction

While directly producing PDF output with pdfIATEX is a great improvement in many ways over the 'old method' of DVI—PS—PDF, it loses the ability to interface with a generic PostScript workflow, used to great effect in numerous packages, most notably PSTricks and psfrag.

Until now, the best way to use these packages while running pdfIATEX

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has been to use the pst-pdf package, which processes the entire document through a filter, sending the relevant PostScript environments (only) through a single pass of LATEX producing DVI—PS—PDF. The resulting PDF versions of each graphic are then included into the pdfLATEX document in a subsequent compilation. The auto-pst-pdf package provides a wrapper to perform all of this automatically.

The disadvantage with this method is that for every document compilation, *every* graphic must be re-processed. The pstool package uses a different approach to allow each graphic to be processed only as needed, speeding up and simplifying the typesetting of the main document.

At present this package is designed solely as a replacement for pst-pdf in the rôle of supporting the psfrag package (which it loads) in pdfIATEX.

More flexible usage to provide a complete replacement for pst-pdf (e.g., supporting the \begin{postscript} environment) is planned for a later release. If you simply need to automatically convert plain EPS files to PDF, I recommend using the epstopdf package with the [update,prepend] package options (epstopdf and pstool should be completely compatible).

2 Getting started

Load the package as usual; no package options are required by default, but there are a few useful options described later in section 3. Note that you do not need to load psfrag separately.

The generic command provided by this package is

```
\pstool [\langle graphicx \ options \rangle] \{\langle filename \rangle\} \{\langle input \ definitions \rangle\}
```

It converts the graphic $\langle filename \rangle$. eps to $\langle filename \rangle$. pdf through a unique DVI \rightarrow PS \rightarrow PDF process for each graphic, using the preamble of the main document. The resulting graphic is then inserted into the document, with optional $\langle graphicx\ options \rangle$. The third argument to \pstool allows arbitrary $\langle input\ definitions \rangle$ (such as \psfrag directives) to be inserted before the figure as it is processed.

The command \pstool can take an optional * or ! suffix to change the behaviour of the command:

\pstool Process the graphic \(\filename \rangle \). eps if \(\filename \rangle \). pdf does not already exist, or if the EPS file is newer than the PDF;

\pstool* Always process this figure; and,

\pstool! Never process this figure.

The behaviour in these three cases can be overridden globally by the package option [process] as described in section 3.1.

It is useful to define higher-level commands based on \pstool for including specific types of EPS graphics that take advantage of psfrag. As an example, this package defines the following command, which also supports the * or ! suffixes described above.

\psfragfig[\langle opts \rangle] {\langle filename \rangle} This is the catch-all macro to support a wide range of graphics naming schemes. It inserts an EPS file named either \langle filename \rangle -psfrag.eps or \langle filename \rangle .eps (in that order of preference), and uses psfrag definitions contained within either \langle filename \rangle -psfrag.tex or \langle filename \rangle .tex.

This command can be used to insert figures produced by the MATHEMATICA package MathPSfrag or the MATLAB package matlabfrag. \psfragfig also accepts an optional braced argument as shown next.

\psfragfig[$\langle opts \rangle$]{ $\langle filename \rangle$ }{ $\langle input\ definitions \rangle$ } As above, but inserts the arbitrary code $\langle input\ definitions \rangle$, which will usually be used to define new or override existing psfrag commands.

3 Package options

3.1 Forcing/disabling graphics processing

While the suffixes * and ! can be used to force or disable (respectively) the processing of each individual graphic, sometimes we want to do this on a global level. The following package options override *all* \pstool (and related) macros:

[process=auto] This is the default mode as described in the previous section, in which graphics with suffixes are only (re-)processed if the EPS file is newer or the PDF file does not exist;

[process=all] Suffixes are ignored and all \pstool graphics are processed;

[process=none] Suffixes are ignored and no \pstool graphics are processed.1

Also note that it would be nice to detect the age of files other than the EPS and PDF graphics in order to affect the processing decisions. This is planned for a possible future release.

¹If pstool is loaded in a LATEX document in DVI mode, this is the option that is used since no external processing is required for these graphics.

3.2 Cropping graphics

The default option [crop=preview] selects the preview package to crop graphics to the appropriate size for each auxiliary process.

However, when an inserted label protrudes from the natural bounding box of the figure, or when the original bounding box of the figure is wrong, the preview package will not always produce a good result (with parts of the graphic trimmed off the edge). A robust method to solve this problem is to use the pdfcrop program instead.² This can be activated in pstool with the [crop=pdfcrop] package option.

In the future I plan to also support epstool for doing the same thing.

3.3 Temporary files & cleanup

Each figure that is processed spawns an auxiliary LATEX compilation through DVI—PS—PDF. This process is named after the name of the figure with an appended string suffix; the default is [suffix={-pstool}]. All of these suffixed files are "temporary" in that they may be deleted once they are no longer needed.

As an example, if the figure is called ex.eps, the files that are created are ex-pstool.tex, ex-pstool.dvi,.... The [cleanup] package option declares via a list of filename suffixes which temporary files are to be deleted after processing.

The default is [cleanup={.tex, .dvi, .ps, .pdf, .log, .aux}]. To delete none of the temporary files, choose [cleanup={}] (useful for debugging).

3.4 Interaction mode of the auxiliary processes

Each graphic echoes the output of its auxiliary process to the console window; unless you are trying to debug errors there is little interest in seeing this information. The behaviour of these auxiliary processes are governed globally by the [mode] package option, which takes the following parameters:

[mode=batch] hide almost all of the LATEX output (default);

[mode=nonstop] echo all LATEX output but continues right past any errors; and

[mode=errorstop] prompt for user input when errors in the source are encountered.

These three package options correspond to the LATEX command line options -interaction=batchmode, =nonstopmode, and =errorstopmode, respectively. When [mode=batch] is activated, then dvips is also run in 'quiet mode'.

²pdfcrop requires a Perl installation under Windows, freely available from http://www.

3.5 Auxiliary processing command line options

The command line options passed to each program of the auxiliary processing can be changed with the following package options:

```
[latex-options] ;
[dvips-options] ;
[ps2pdf-options] ; and,
[pdfcrop-options] .
```

For the most part these will be unnecessary, although passing the correct options to ps2pdf can sometimes be a little obscure. For example, I use the following for generating figures in my thesis:

ps2pdf-options={-dCompatibilityLevel=1.4 -dPDFSETTINGS=/prepress} I believe this incantation forces fonts to be embedded within the individual figure files, without which some printers and PDF viewers have trouble with the textual labels.

4 Miscellaneous details

4.1 The \EndPreamble command

At present, pstool scans the preamble of the main document by redefining \begin{document}, but this is rather fragile because many classes and packages do their own redefining which overwrites pstool's attempt. In this case, place the command

\EndPreamble

where-ever you'd like the preamble in the auxiliary processing to end (although is must be placed before \begin{document} for obvious reasons). This is also handy to bypass anything in the preamble that will never be required for the figures but which will slow down or otherwise conflict with the auxiliary processing.

4.2 Cross-reference limitations

The initial release of this package does not support cross-references within the psfrag labels of the included graphics. (If, say, you wish to refer to an equation number within a figure.) A future release of pstool will hopefully lift this limitation.

 $^{{\}tt active state.com/Products/active perl/index.plex}$

4.3 A note on file paths

pstool does its best to ensure that you can put image files where-ever you like and the auxiliary processing will still function correctly. In order to ensure this, the external pdflatex compilation uses the -output-directory feature of pdfTeX. This command line option is definitely supported on all platforms in TeX Live 2008 and MiKTeX 2.7, but earlier distributions may not be supported.

One problem that pstool does not (currently) solve on its own is the inclusion of images that do not exist in subdirectories of the main document. For example, \pstool{.../Figures/myfig} will not process by default because pdfTeX usually does not have permission to write into folders that are higher in the heirarchy than the main document. This can be worked around presently in two different ways: (although maybe only for Mac OS X and Linux)

- 1. Give pdflatex permission to write anywhere with the command: openout_any=a pdflatex ...
- 2. Create a symbolic link in the working directory to a point higher in the path: ln -s ../../PhD ./PhD, for example, and then refer to the graphics through this symbolic link.

I hope to directly solve this problem in the future by using a caching folder for the auxiliary processing in such cases.

5 Package information

The most recent publicly released version of pstool is available at CTAN:

```
http://tug.ctan.org/pkg/pstool/
```

Historical and developmental versions are available at GitHub:

```
http://github.com/wspr/pstool/
```

While general feedback at wspr810gmail.com is welcomed, specific bugs should be reported through the bug tracker at FogBugz: https://wspr.fogbugz.com/(click 'TASKS: Enter a New Case').

5.1 Licence

This package is freely modifiable and distributable under the terms and conditions of the LATEX Project Public Licence, version 1.3c or greater (your choice). The latest version of this license is available at: http://www.latex-project.org/lppl.txt. This work is maintained by WILL ROBERTSON.

Part II

Implementation

LaTeX2e file 'pstool.sty' generated by the 'filecontents' environment from source 'pstool' on 2009/03/12.

```
\ProvidesPackage{pstool}[2008/08/31_v1.0
```

Wrapper_for_processing_PostScript/psfrag_figures]

External packages

```
3 \RequirePackage{%
4
catchfile,color,ifpdf,ifplatform,graphicx,psfrag,suffix,xkeyval}
5 \RequirePackage{inversepath}[2008/07/31_uv0.2]
```

Allocations

```
\if@pstool@always@ 6 \newif\if@pstool@always@ \if@pstool@never@ 7 \newif\if@pstool@never@ 8 \newif\if@pstool@pdfcrop@ 8 \newif\if@pstool@pdfcrop@ \if@pstool@verbose@ \pstool@out 10 \newwrite\pstool@out
```

These are cute

```
\label{lem:control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_control_c
```

5.2 Package options

21 \define@choicekey*{pstool.sty}{process}[\@tempa\@tempb]{%

```
process
                                 all, none, auto}{%
                           \ifcase\@tempb\relax
                             \@pstool@always@true
                       23
                             \@pstool@never@true
                           \fi
                       28
                         }
                         \define@choicekey*{pstool.sty}{mode}
                mode
                           [\@tempa\@tempb]{errorstop,nonstop,batch}{%
                             \ifnum\@tempb=2\relax
                               \@pstool@verbose@false
                             \else
                               \@pstool@verbose@true
                             \edef\pstool@mode{\@tempa_mode}%
                         }
                         \ExecuteOptionsX{mode=batch}
                         \DeclareOptionX{cleanup}{\def\pstool@rm@files{#1}}
             cleanup
                         \ExecuteOptionsX{cleanup={.tex,.dvi,.ps,.pdf,.log,.aux}}
    \pstool@rm@files
                       \DeclareOptionX{suffix}{\def\pstool@suffix{#1}}
              suffix
                      \ExecuteOptionsX{suffix={-pstool}}
      \pstool@suffix
       latexOoptions
                       43 \DeclareOptionX{'Ooptions.options0'Ooptions'0-
                               options.options0'Ooptionslatex-options}{\def%
  \pstool@latex@opts
                               \pstool@latex@opts{#1}}
       dvips0options
                       44 \DeclareOptionX{'Ooptions.options0'Ooptions'0-
                               options.options0'Ooptionsdvips-options}{\def%
  \pstool@dvips@opts
                               \pstool@dvips@opts{#1}}
      ps2pdf0options
                       45 \DeclareOptionX{'Ooptions.options0'Ooptions'0-
                               options.options0'Ooptionsps2pdf-options}{\def%
  \pstool@pspdf@opts
                               \pstool@pspdf@opts{#1}}
                       46 \DeclareOptionX{'Ooptions.options0'Ooptions'O-
     pdfcrop0options
                               options.options0'Ooptionspdfcrop-options}{\def%
\pstool@pdfcrop@opts
                               \pstool@pdfcrop@opts{#1}}
                         \ExecuteOptionsX{%
                           latex-options={},
                           dvips-options={},
```

```
ps2pdf-options={},
pdfcrop-options={}}

ifshellescape\else
  \ExecuteOptionsX{process=none}

PackageWarning{pstool}{^^J\space\space\}

Package_option_[process=none]_activated^^J\space\space
because_-shell-escape_is_not_enabled.^^J\%

This_warning_occurred}

ifi

ProcessOptionsX
```

6 Macros

Used to echo information to the console output. Can't use ecause it's asynchronous with any \immediate\write18 processes (for some reason).

```
\pstool@echo 60 \def\pstool@echo#1{%
61 \if@pstool@verbose@
62 \pstool@echo@verbose{#1}%
63 \fi}
\pstool@echo@verbose
64 \def\pstool@echo@verbose#1{%
65 \immediate\write18{echo_"#1"}%
66 }
67 \let\pstool@includegraphics\includegraphics
```

Command line abstractions between platforms:

```
\label{lem:condition} $$ \edf\pstool@cmdsep{\ifwindows\string&\else\string;\fi\space} $$ \edf\pstool@rm@cmd{\ifwindows\_del_\else\_rm_--_\fi} $$
```

Delete a file if it exists (only the filename is supplied and the path is inferred):

```
\label{eq:continuous_pstool_grm} $$ \operatorname{lonlyIfFileExists}_{\#1\#2}_{\%} $$ $$ \operatorname{lonlyIfFileExists}_{\#1\#2}_{\%} $$ $$ \operatorname{lonlyIfFileExists}_{\#1\#2}_{\%} $$ $$ \operatorname{cd}_{\#1}^{1}\operatorname{betool@cmdsep\pstool@cmdcmd}_{\#2}_{\%} $$ $$ $$ $$ $$ $$
```

Generic function to execute a command on the shell and pass its exit status back into LATEX. Any number of \pstool@exe statements can be made consecutively

followed by \pstool@endprocess, which also takes an argument. If any of the shell calls failed, then the execution immediately skips to the end and expands \pstool@error instead of the argument to \pstool@endprocess.

```
#1: 'name' of process
```

#2: relative path where to execute the command

#3: the command itself

Edit this definition to print something else when graphic processing fails.

```
\pstool@error
83 \def\pstool@error{%
84  \fbox{%
85  \parbox{0.8\linewidth}{%
86  \color{red}\raggedright\ttfamily\scshape\small
87  An_error_occured_processing_graphic_\upshape'%
       \ip@directpath\ip@lastelement'}}

\pstool@abort
88 \def\pstool@abort#1\pstool@endprocess{\pstool@error\@gobble}
89 \let\pstool@endprocess\@firstofone
```

It is necessary while executing commands on the shell to write the exit status to a temporary file to test for failures in processing. (If all versions of pdflatex supported input pipes, things might be different.)

echo_□\detokenize{\$?}

That's the execution; now we need to flush the write buffer to the status file. This ensures the file is written to disk properly (allowing it to be read by \CatchFileEdef). Not necessary on Windows, whose file writing is evidently more crude/immediate.

```
101 \ifwindows\else
102 \immediate\write18{%
103 touch_#1\pstool@statusfile}%
104 \fi}
105 \def\pstool@statusfile{pstool-statusfile.txt}
```

Read the exit status from the temporary file and delete it.

#1 is the path

\pstool@statusfile

Status is recorded in \pstool@status.

6.1 File age detection

Use 1s (or dir) to detect if the EPS is newer than the PDF.

```
\label{lem:pstool@IfnewerEPS} $$ \parbol@IfnewerEPS{% } $$ \edef\pstool@IfnewerEPS{% } $$ \parbol@IfnewerEPS{% } $$ \par
```

```
ls_{\sqcup} - t_{\sqcup} "\ ip@lastelement.eps"_{\sqcup} "\ ip@lastelement.pdf"_{\sqcup} >_{\sqcup} \%
123
                   \pstool@statusfile
         \fi
124
      }%
125
      \pstool@retrievestatus{\ip@directpath}%
126
      \ifx\pstool@status\pstool@filenames
127
         \expandafter\@firstoftwo
128
      \else
129
         \expandafter\@secondoftwo
      \fi
131
   }
```

A wrapper for \inversepath*. Long story short, always need a relative path to a filename even if it's in the same directory.

```
\pstool@getpaths
                      \def\pstool@getpaths#1{%
                        \edef\@tempa{\unexpanded{\inversepath*}{#1}}%
                        \@tempa% calculate filename, path & inverse path
                        \ifx\ip@directpath\@empty
                          \def\ip@directpath{./}%
 \ip@directpath
                        \fi
                   Strip off a possible wayward .eps suffix.
                        \edef\ip@lastelement{%
                          \expandafter\pstool@stripEPS\ip@lastelement.eps\@nil
                        }%
                   142 }
\pstool@stripEPS
                      \def\pstool@stripEPS#1.eps#2\@nil{#1}
                   test.eps\@nil->test
                   test.eps.eps\@nil->test
```

7 Command parsing

User input is \pstool (with optional * or ! suffix) which turns into one of the following three macros depending on the mode.

```
\label{eq:continuous_process} $$ _{144} \rightarrow \frac{1}{45} \quad \pstool@getpaths{#2}% $$ _{146} \quad \pstool@process{#1}{#3}$$
```

newcommand\pstool@neverprocess[3][]{%

\pstool@neverprocess

```
s \pstool@includegraphics[#1]{#2}}
```

For regular operation, which processes the figure only if the command is starred, or the PDF doesn't exist.

```
\newcommand\pstool@maybeprocess[3][]{%
\pstool@maybeprocess
                             \pstool@getpaths{#2}%
                             \IfFileExists{#2.pdf}{%
                        151
                               \pstool@IfnewerEPS{% needs info from \pstool@getpaths
                                 \pstool@process{#1}{#3}%
                        153
                               }{%
                                 \pstool@includegraphics[#1]{#2}%
                               }%
                             }{%
                        157
                               \pstool@process{#1}{#3}%
                        158
                             }}
                        159
```

8 User commands

Finally, define \pstool as appropriate for the mode:

```
\ifpdf
               \if@pstool@always@
          161
                 \let\pstool\pstool@alwaysprocess
                 \WithSuffix\def\pstool!{\pstool@alwaysprocess}
\pstool
                 \WithSuffix\def\pstool*{\pstool@alwaysprocess}
\pstool*
               \else\if@pstool@never@
                 \let\pstool\pstool@neverprocess
          166
\pstool
                 \WithSuffix\def\pstool!{\pstool@neverprocess}
\pstool*
                 \WithSuffix\def\pstool*{\pstool@neverprocess}
          168
               \else
          169
                 \let\pstool\pstool@maybeprocess
\pstool
                 \WithSuffix\def\pstool!{\pstool@neverprocess}
\pstool*
                 \WithSuffix\def\pstool*{\pstool@alwaysprocess}
               \fi\fi
          173
             \else
               \let\pstool\pstool@neverprocess
               \WithSuffix\def\pstool!{\pstool@neverprocess}
\pstool
\pstool*
               \WithSuffix\def\pstool*{\pstool@neverprocess}
             \fi
```

9 The figure processing

\ip@lastelement is the filename of the figure stripped of its path (if any)

\pstool@jobname

```
179 \def\pstool@jobname{\ip@lastelement\pstool@suffix}
```

And this is the main macro.

Execute dvips in quiet mode if latex is not run in (non/error)stop mode:

```
\pstool@exe{dvips}{\ip@directpath}{%
       dvips_\if@pstool@verbose@\else_-q_\fi_-Ppdf_\%
             \pstool@dvips@opts\space_"\pstool@jobname.dvi"}%
     \if@pstool@pdfcrop@
193
       \pstool@exe{ps2pdf}{\ip@directpath}{%
         ps2pdf_\pstool@pspdf@opts\space_"\pstool@jobname.ps"_"%
195
               \pstool@jobname.pdf"}%
       \pstool@exe{pdfcrop}{\ip@directpath}{%
196
         pdfcrop_\pstool@pdfcrop@opts\space_"%
               \pstool@jobname.pdf"\"\ip@lastelement.pdf"}%
     \else
198
       \pstool@exe{ps2pdf}{\ip@directpath}{%
199
         ps2pdf_\pstool@pspdf@opts\space_"\pstool@jobname.ps"_"%
200
               \ip@lastelement.pdf"}%
201
     \pstool@echo{^^J===\pstool:\end\processing\===^^J}%
202
     \pstool@endprocess{%
203
       \pstool@cleanup
204
       \pstool@includegraphics[#1]{\ip@directpath%
205
             \ip@lastelement}}}
```

The file that is written for processing is set up to read the preamble of the original document and set the graphic on an empty page (cropping to size is done either here with preview or later with pdfcrop).

stool@write@processfile

```
\def\pstool@write@processfile#1#2#3{\%\
\immediate\openout\pstool@out_#2\pstool@suffix.tex\relax\
\immediate\write\pstool@out{\%\
\noexpand\pdfoutput=0^^J\% force DVI mode if not already\
```

Input the main document; redefine the document environment so only the preamble is read:

Now the preamble of the process file: (restoring document's original meaning; empty \pagestyle removes the page number)

```
215 \if@pstool@pdfcrop@\else
216 \noexpand\usepackage[active,tightpage]{preview}^^J%
217 \fi
218 \unexpanded{%
219 \let\document\origdocument^^J%
220 \pagestyle{empty}^^J}%
```

And the document body to place the graphic on a page of its own:

```
\unexpanded{%
221
           \begin{document}^^J%
           \centering\null\vfill^^J}%
223
         \if@pstool@pdfcrop@\else
            \noexpand\begin{preview}^^J%
225
         \unexpanded{#3^^J}% this is the "psfrag" material
         \noexpand\includegraphics[#1]{\ip@lastelement}^^J%
         \if@pstool@pdfcrop@\else
220
           \noexpand\end{preview}^^J%
         \fi
         \unexpanded{%
232
```

```
\vfill\end{document}}^^J%
                    233
                            }%
                    234
                           \immediate\closeout\pstool@out}
                    235
                       \def\pstool@cleanup{%
   \pstool@cleanup
                         \@for\@ii:=\pstool@rm@files\do{%
                           \pstool@rm{\ip@directpath}{\pstool@jobname\@ii}%
                      }}
     \EndPreamble
                    240 \providecommand\EndPreamble{}
                         User commands
                    10
                    These all support the suffixes * and !, so each user command is defined as a
                    wrapper to \pstool.
                    for EPS figures with psfrag:
                   \newcommand\psfragfig[2][]{\pstool@psfragfig{#1}{#2}{}}
       \psfragfig
       \psfragfig*
                    242 \WithSuffix\newcommand\psfragfig*[2][]{\pstool@psfragfig{#1}{%
                            #2}{*}}
       \psfragfig
                   #2}{!}}
                    Parse optional (input definitions)
\pstool@psfragfig
                       \newcommand\pstool@psfragfig[3]{%
                    244
                         \@ifnextchar\bgroup{%
                    245
                           \pstool@@psfragfig{#1}{#2}{#3}%
                    246
                        }{%
                    247
                           \pstool@@psfragfig{#1}{#2}{#3}{}%
                        }%
                    249
                    250 }
                    Search for both \(\filename\) and \(\filename\)-psfrag inputs.
                       \newcommand\pstool@@psfragfig[4]{%
\pstool@@psfragfig
                         \IfFileExists{#2-psfrag.eps}{%
                           \def\pstool@eps{#2-psfrag}%
       \pstool@eps
                           \OnlyIfFileExists{#2.eps}{%
                            \PackageWarning{pstool}{Graphic_"#2.eps"_exists_but_
```

"#2-psfrag.eps"_is_being_used}%

```
}%
                   256
                          }{%
                   257
                             \IfFileExists{#2.eps}{%
                   258
                                \def\pstool@eps{#2}%
\pstool@eps
                   259
                             }{%
                   260
                                \PackageError{pstool}{%
                   261
                                   No_graphic_"#2.eps"_or_"#2-psfrag.eps"_found%
                   262
                   263
                                   Check_{\sqcup}the_{\sqcup}path_{\sqcup}and_{\sqcup}whether_{\sqcup}the_{\sqcup}file_{\sqcup}exists.\%
                   264
                                }%
                   265
                             }%
                   266
                          }%
                   267
                          \pstool#3[#1]{\pstool@eps}{%
                   268
                             \InputIfFileExists{#2-psfrag.tex}{%
                   269
                                \OnlyIfFileExists{#2.tex}{%
                   270
                                   \PackageWarning{pstool}{%
                   271
                                      File_"#2.tex"_exists_that_may_contain_macros_for_"%
                   272
                                              \pstool@eps.eps"^^J%
                                      \texttt{But}_{\sqcup} \texttt{file}_{\sqcup} \texttt{"#2-psfrag.tex"}_{\sqcup} \texttt{is}_{\sqcup} \texttt{being}_{\sqcup} \texttt{used}_{\sqcup} \texttt{instead.\%}
                   273
                                   }%
                   274
                                }%
                   275
                             }{%
                                \InputIfFileExists{#2.tex}{}{}%
                   277
                             }%
                             #4%
                          }%
                   281 }
                   \langle eof \rangle
```