The epstopdf package

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Abstract

This packages adds support of handling eps images to package graphics or graphicx with option pdftex. If an eps image is detected, epstopdf is automatically called to convert it to pdf format.

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 $^{{\}rm *Please\ report\ any\ issues\ at\ https://github.com/ho-tex/oberdiek/issues}$

)	Catalogue
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	$[2007/04/26 \text{ v}1.4] \dots \dots$
	[2007/10/02 v1.5]
	[2007/11/11 v1.6]
	[2008/05/06 v1.7]
	[2009/03/01 v1.8]
	[2009/07/06 v1.9]
	[2009/07/07 v1.10]
	[2009/07/12 v2.0]
	$[2009/07/15 \text{ v2.1}] \dots \dots$
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	[2009/09/24 v2.3]
	$[2009/10/17 \text{ v2.4}] \dots \dots$
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	[2016/05/15 v2.6]
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1 Documentation

1.1 Introduction

IATEX provides its graphics bundle to include graphics files. Both packages graphics or graphicx may be used. the latter one loads the first and adds options in key value style for \includegraphics.

Usually the drivers do not support all kind of graphics files. Other image types must be converted, before they become usuable. In case of driver dvips, the graphics rule may contain a conversion rule. Then all that package graphics must know is the bounding box, the command is passed to dvips that calls it and embeds the converted image.

However, pdfTeX has its driver for PDF output already build in. It's graphics inclusion commands (\pdfximage) does not allow the execution of external commands. Therefore commands in the last argument of \DeclareGraphicsRule were of no use. But external programs can be called within pdfTeX. This feature is called "shell escape" or "write 18" and must usually enabled explicitly because of security reasons. Now, this package epstopdf hooks into package graphics' code to catch that argument with the external command and executes it to convert the graphics file to a supported format and passes the control of graphics inclusion back to package graphics.

1.2 Requirements

• The feature \write18 must be enabled. This allows the running of external programs during TeX's compile run. Keep in mind that this is a security risk. The feature is an addition to \TeX. MikTeX, teTeX, TeX Live support it. In Web2C based TeX distributions (teTeX, TeX Live) it can be enabled in the configuration file texmf.cnf:

```
shell_escape = 1
```

Because of the security risk, it is better to do it on the command line only:

```
--shell-escape (teTeX, TeX Live) --enable-write18 (MiKTeX)
```

Example:

```
pdflatex -shell-escape test.tex
```

• The program epstopdf for the conversion from EPS to PDF. However, other programs can be used and configured by \DeclareGraphicsRule. Example:

```
\epstopdfDeclareGraphicsRule{.eps}{pdf}{.pdf}{%
   ps2pdf -dEPSCrop #1 \OutputFile
}
```

1.3 Usage

The package is loaded after graphic $\{s,x\}$, e.g.:

```
\usepackage[pdftex]{graphicx}
\usepackage{epstopdf}
```

Now images with file name extension .eps are detected and supported using \includegraphics.

If the graphics file name is explicitly specified with extension .eps the new rule for EPS files is called and the conversion performed. If option update is in force then the conversion step is dropped if the target file already exists and is not older then the EPS file.

The situation is more complicate if the graphics file is given without file name extension. Then the graphics package must search for a supported image file. The possible extensions are stored in the graphics extension list, that can be set by \DeclareGraphicsExtensions. The algorithm:

Package epstopdf puts .eps at the end of the graphics extension search list. This is the behaviour of option append that is enabled by default. That means, the conversion is called last unless a supported file type cannot be found earlier. This avoids unnecessary conversion steps that slow down the LATEX run. If you want to use option update and your pdfTEX supports it, then an outdated PDF file also would be found earlier unless suffix is used that is the default since version 2.0.

With an empty option suffix and option prepend there is a risk that an original PDF file is overwritten:

If the original image file is the PDF file and there is also a generated EPS file, then the original PDF file can be regenerated (depending on the option settings) and the original PDF file gets lost. Therefore option suffix is introduced in version 1.9 to create a separate name space for generated output files.

Note: Usually the conversion program needs the exact location of the image file. Usually the current directory works. Also if the image file is found using \graphicspath, the location is known. However, if the image is somewhere in a directory of environment variable TEXINPUTS, then the package does not know the exact location and the conversion program will not find the image file unless it implements a search using TEXINPUTS (program kpsewhich may be of help in this task).

1.4 Options

Options can be given as package options or later using:

\epstopdfsetup $\{\langle key\ value\ list \rangle\}$

IATEX expands the option list before passing the option list to the package's option handling code. This can fail for option suffix if it contains some of the macros described below. Use \epstopdfsetup after the package is loaded. Or load package kvoptions-patch before. This package is also loaded by option patch of package kvoptions. IATEX's option code is redefined to respect key value options and let the values untouched.

update: The conversion program is only called, if the target file does not exist or is older than the source image file.

append: Puts the extension .eps at the end of the graphics extension list (default).

prepend: Puts the extension .eps at the begin of the graphics extension list.

outdir: The converted file may put in an other output directory. The value of **out-dir** must include the directory separator. Example for the current directory:

```
\epstopdfsetup{outdir=./}
```

For other directories ensure, that they can be found. See \graphicspath or TEXINPUTS.

suffix: This option takes a string that is put between the file name base and the extension of the output file. Rationale: It can happen, that a PDF file is the original file and the EPS file the generated file. If now the package thinks, that the PDF file is the generated file, it will 'regnerate' it. But in reality the original file is lost. Therefore I recommend to use this option always to generate a separate name space for generated files. Proposed value is -generated or .generated. The suffix .generated will also work here without the need for package grffile).

Example:

```
\epstopdfsetup{suffix=-generated}
Then foo.eps is converted to foo-generated.pdf.
```

\SourceExt can be used inside the suffix string. It's will be replaced by the extension of the image source file without the leading dot, for instance:

```
\label{lem:converted-to} $$ \operatorname{suffix=-\sum_Ext-converted-to}$ foo.eps $$ foo-eps-converted-to.pdf $$
```

See also the next option prefersuffix that modifies the behaviour of option suffix in some cases.

Default for suffix is '-\SourceExt-converted-to'.

prefersuffix: If a suffix is set by option suffix, then there can be two image file names that could be taken into account for inclusion: A image file name with the suffix string inside its name and a image file name without; e.g. for foo.eps the names could be:

```
foo-suffix.pdf, foo.pdf
```

If option perfersuffix is turned on, the file foo-suffix.pdf and its generation is preferred over using foo.pdf. Otherwise foo.pdf is included without generating foo-suffix.pdf. The default of option prefersuffix is true.

program@epstopdf: The name for the conversion program from EPS to PDF, default is 'epstopdf'.

verbose: It prints some information about the image in the .log file (default).

1.5 Configuration

1.5.1 System configuration file epstopdf-sys.cfg

If epstopdf-sys exists it is loaded at the end of the package epstopdf-base and before the user configuration file. It's intended for TeX distributors. Thus they could add additional conversion rules (e.g., .gif -> .png) or set options.

1.5.2 User configuration file epstopdf.cfg

A configuration file epstopdf.cfg is loaded at the end of the package if it exists. It can be used for changing the default option setting. Example:

\epstopdfsetup{verbose=false}

1.5.3 Conversion program

You can use \DeclareGraphicsRule in a similar way as the route via dvips to specify the conversion command line. The conversion argument starts with a back tick, followed by the conversion command including parameters.

The whole conversion argument should also be wrapped inside \epstopdfcall. This reduces the problem with packages (e.g. pst-pdf) that use the conversion argument and expands it. Macros \SourceFile, \OutputFile, and \SourceExt are not defined outside epstopdf-base's \Gin@setfile and error messages because of undefined command names are the result. If \epstopdfcall detects that it is called outside epstopdf-base's \Gin@setfile then it replaces the conversion argument by package graphics's default, usually the image file.

The following macros are available inside:

\OutputFile: : output file name (with known path and extension)

\SourceFile: : source file name (with known path and extension), usually the same as #1,

\SourceExt: : source extension without leading dot.

Conversion from EPS to PDF. Other programs than epstopdf can be used to convert from EPS to PDF. Example that uses Ghostscript:

```
\DeclareGraphicsRule{.eps}{pdf}{.pdf}{%
  \epstopdfcall{`ps2pdf -dEPSCrop #1 \noexpand\OutputFile}%
}
```

\DeclareGraphicsRule expands the argument, therefore \noexpand is necessary. As convenience package epstopdf-base defines \epstopdfDeclareGraphicsRule. Then the conversion argument is not expanded, \epstopdfcall and the back tick are added:

```
\epstopdfDeclareGraphicsRule{.eps}{pdf}{.pdf}{%
   ps2pdf -dEPSCrop #1 \OutputFile
}
```

Also \OutputFile respects the setting of option outdir.

1.6 Other image formats

The support that package epstopdf implements is not limited to EPS files. Other image conversions can be declared. The following example shows it for GIF images under Unix with ImageMagick's convert:

```
\epstopdfDeclareGraphicsRule{.gif}{png}{.png}{%
  convert #1 \OutputFile
}
```

The file extension .gif can be added to the extension list that package graphics searches if the file extension is not given in \includegraphics. The list can be set by \GraphicsExtensions.

```
\AppendGraphicsExtensions{.gif} or \PrependGraphicsExtensions{.gif}
```

2 Implementation

```
1 (*package)
```

2.1 Wrapper package

Reload check, especially if the package is not used with LATEX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
 3 \catcode13=5 % ^^M
    \endlinechar=13 %
 4
    \catcode35=6 % #
 5
    \catcode39=12 % '
 6
    \catcode44=12 % ,
    \catcode45=12 % -
 8
    \catcode46=12 % .
 9
10
    \catcode58=12 % :
11
    \catcode64=11 % @
    \catcode123=1 % {
12
    \catcode125=2 % }
13
    \expandafter\let\expandafter\x\csname ver@epstopdf.sty\endcsname
14
    \ifx\x\relax % plain-TeX, first loading
15
16
    \else
     \def\empty{}%
17
     \ifx\x\empty % LaTeX, first loading,
18
       % variable is initialized, but \ProvidesPackage not yet seen
19
20
21
       \expandafter\ifx\csname PackageInfo\endcsname\relax
22
        \def\x#1#2{\%}
         \immediate\write-1{Package #1 Info: #2.}%
23
        }%
24
       \else
25
        26
27
       \x{epstopdf}{The package is already loaded}%
28
29
       \aftergroup\endinput
     \fi
30
31
    \fi
32 \endgroup%
Package identification:
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34 \catcode13=5 % ^^M
    \endlinechar=13 %
35
36
    \catcode35=6 % #
    \catcode39=12 % '
37
```

```
\catcode40=12 % (
    38
                        \catcode41=12 % )
    39
                       \cdot = 12 \% ,
    40
                        \catcode45=12 % -
    41
                       \catcode46=12 % .
    42
    43
                       \catcode47=12 % /
    44
                       \catcode58=12 %:
                       \catcode64=11 % @
    45
                       \catcode91=12 % [
    46
                       \catcode93=12 % ]
    47
                       \catcode123=1 % {
    48
                       \catcode125=2 % }
    49
                       \expandafter\ifx\csname ProvidesPackage\endcsname\relax
    50
                              \def\x#1#2#3[#4]{\endgroup}
    51
                                     \immediate\write-1{Package: #3 #4}%
    52
                                     \xdef#1{#4}%
    53
    54
                             }%
    55
                       \else
                              \def \x#1#2[#3]{\endgroup}
    56
                                     #2[{#3}]%
    57
                                     \inf #1\
    58
                                           \xdef#1{#3}%
    59
    60
                                      \ifx#1\relax
    61
                                           \xdef#1{#3}%
    62
    63
                                      \fi
    64
                             }%
    65
                      \fi
    66 \expandafter\x\csname ver@epstopdf.sty\endcsname
    67 \ProvidesPackage{epstopdf}\%
    68 [2016/05/15 v2.6 Conversion with epstopdf on the fly (HO)]%
Larger catcode set because of configuration files needed.
    69 \begingroup\catcode61\catcode48\catcode32=10\relax%
                      \color=5 \% ^{M}
                       \endlinechar=13 %
    71
                       \catcode123=1 % {
    72
                      \catcode125=2 % }
    73
                      \catcode64=11 % @
    74
                       \def\x{\endgroup
    75
                              \expandafter\edef\csname ETE@AtEnd\endcsname{%
    76
    77
                                     \endlinechar=\the\endlinechar\relax
    78
                                     \catcode13=\the\catcode13\relax
    79
                                     \catcode32=\the\catcode32\relax
    80
                                     \catcode35=\the\catcode35\relax
    81
                                     \catcode61=\the\catcode61\relax
                                     \colored{catcode64} \to \colored{catcode64}
    82
                                     \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
    83
                                     \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
    84
                             }%
    85
                     }%
    86
    87 \x\catcode61\catcode48\catcode32=10\relax%
    88 \catcode13=5 \% ^^M
    89 \endlinechar=13 %
    90 \catcode35=6 % #
    91 \catcode64=11 % @
    92 \catcode123=1 \% {
    93 \catcode125=2 % }
    94 \def\TMP@EnsureCode#1#2{%
                       \edef\ETE@AtEnd{%
    95
                              \ETE@AtEnd
    96
                             \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
    97
                  }%
```

```
99 \catcode#1=#2\relax
100 }
101 \TMP@EnsureCode{39}{12}% '
102 \TMP@EnsureCode{40}{12}% (
103 \TMP@EnsureCode{41}{12}% )
104 \TMP@EnsureCode{42}{12}% *
105 \TMP@EnsureCode{45}{12}% -
106 \TMP@EnsureCode{47}{12}% /
107 \TMP@EnsureCode{91}{12}% [
108 \TMP@EnsureCode{93}{12}% ]
109 \edef\ETE@AtEnd\\etacapand\endinput\}
110 \let\ETE@SavedAtEnd\\ETE@AtEnd
111 \RequirePackage{epstopdf-base}[2016/05/15]
112 \let\ETE@AtEnd\\ETE@SavedAtEnd
```

2.1.1 Option handling

```
113 \DeclareOption*{%
114 \expandafter\epstopdfsetup\expandafter{\CurrentOption}%
115 }
116 \ProcessOptions*\relax
117 \ETE@AtEnd%
118 \( /package \)
```

2.2 Base package

119 (*base)

2.3 Preparations

2.3.1 Relead check and identification

Reload check, especially if the package is not used with LATEX.

```
120 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \catcode13=5 % ^^M
121
122 \endlinechar=13 %
123 \catcode35=6 % #
124 \catcode39=12 % '
125 \catcode44=12 \%,
126 \catcode45=12 % -
127 \catcode46=12 %.
128 \catcode58=12 %:
129 \catcode64=11 % @
    \catcode123=1 % {
130
131
    \catcode125=2 % }
132
    \expandafter\let\expandafter\x\csname ver@epstopdf-base.sty\endcsname
133
    \ifx\x\relax % plain-TeX, first loading
134
135
     \def\ence{2}\%
136
     \ifx\x\empty % LaTeX, first loading,
137
       % variable is initialized, but \ProvidesPackage not yet seen
138
      \else
       \expandafter\ifx\csname PackageInfo\endcsname\relax
139
        \def\x#1#2{\%}
140
          \immediate\write-1{Package #1 Info: #2.}%
141
        }%
142
143
       \else
144
        145
146
       \x{epstopdf-base}{The package is already loaded}%
       \aftergroup\endinput
147
     \fi
148
    \fi
149
150 \endgroup%
```

Package identification:

```
151 \begingroup\catcode61\catcode48\catcode32=10\relax%
152 \catcode13=5 % ^^M
153 \endlinechar=13 %
154 \catcode35=6 % #
155 \catcode39=12 % '
156 \catcode40=12 % (
157 \catcode41=12 \%)
158 \catcode44=12 %,
159 \catcode45=12 % -
160 \catcode46=12 % .
    \catcode47=12 % /
161
    \catcode58=12 % :
162
163
    \catcode64=11 % @
164
    \catcode91=12 % [
    \catcode93=12 % ]
166
    \catcode123=1 % {
    \catcode125=2 % }
167
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
168
     \def\x#1#2#3[#4]{\endgroup}
169
       \immediate\write-1{Package: #3 #4}%
170
       \xdef#1{#4}%
171
     }%
172
    \else
173
      \def \ \#1\#2[\#3]{\endgroup}
174
       #2[{#3}]%
175
176
       \inf #1\
177
        \xdef#1{#3}%
178
       \fi
       \inf #1 \operatorname{lax}
179
        \xdef#1{#3}%
180
       ١fi
181
182
     ት%
183 \fi
184 \expandafter\x\csname ver@epstopdf-base.sty\endcsname
185 \ProvidesPackage{epstopdf-base}%
186 [2016/05/15 v2.6 Base part for package epstopdf]%
```

2.3.2 Catcodes

```
187 \begingroup\catcode61\catcode48\catcode32=10\relax%
188 \catcode13=5 % ^^M
189 \endlinechar=13 %
190 \catcode123=1 % {
191 \catcode125=2 % }
192 \catcode64=11 % @
193 \def\x{\endgroup}
                                         \expandafter\edef\csname ETE@AtEnd\endcsname{%
194
                                                     \endlinechar=\the\endlinechar\relax
195
                                                     \color=\the\color=13\relax
196
                                                     \verb|\catcode32=\\ the \verb|\catcode32\\ relax|
197
                                                     \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
198
199
                                                     \colored{catcode61=\the\colored{catcode61\relax}}
                                                     \colored{catcode64} \to \colored{catcode64} \
200
                                                     \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
201
202
                                                     \color=\the\color=125\relax
203
                                         }%
204 }%
205 \x\catcode61\catcode48\catcode32=10\relax%
206 \catcode13=5 \% ^^M
207 \endlinechar=13 %
208 \catcode35=6 \% #
```

```
209 \catcode64=11 % @
210 \catcode123=1 % {
211 \catcode125=2 % }
212 \def\TMP@EnsureCode#1#2{%
213 \edef\ETE@AtEnd{%
214
     \ETE@AtEnd
215
     \catcode#1=\the\catcode#1\relax
216 }%
217 \ \text{catcode} = 1 = 2 \right
218 }
219 \TMP@EnsureCode{33}{12}%!
220 \TMP@EnsureCode{39}{12}%
221 \TMP@EnsureCode{42}{12}% *
222 \TMP@EnsureCode{44}{12}\% ,
223 \TMP@EnsureCode{45}{12}% -
224 \TMP@EnsureCode{46}{12}%.
225 \TMP@EnsureCode{47}{12}% /
226 \TMP@EnsureCode{58}{12}%:
227 \TMP@EnsureCode{60}{12}% <
228 \TMP@EnsureCode{62}{12}% >
229 \TMP@EnsureCode{96}{12}%
230 \edef\ETE@AtEnd{\ETE@AtEnd\noexpand\endinput}
2.3.3 Load packages
231 \RequirePackage{infwarerr}[2007/09/09]
232 \RequirePackage\{grfext\}\relax
233 \RequirePackage{kvoptions}[2007/10/02]
```

2.4Checks

Check, whether package graphics is loaded (also graphicx loads graphics). Because miniltx.tex does not know \@ifpackageloaded we test for \Gin@setfile instead.

```
235 \begingroup\expandafter\expandafter\expandafter\endgroup
236 \expandafter\ifx\csname Gin@setfile\endcsname\relax
    \@PackageWarningNoLine{epstopdf}{%
237
     No graphics package \string`graphic{s,x}\string' loaded%
238
239
    \newcommand*{\epstopdfsetup}[1]{}%
240
    \expandafter\ETE@AtEnd
241
242 \fi%
```

234 \RequirePackage{pdftexcmds}[2007/11/11]

Check, whether pdftex.def is loaded. \ver@pdftex.def is not available with miniltx.tex, thus we test for \Gin@driver.

```
243 \begingroup
244 \def\x{luatex.def}\%
245 \ifx\Gin@driver\x
246 \else
    \def\x{pdftex.def}%
247
    \ifx\Gin@driver\x
248
249
     \@PackageWarningNoLine{epstopdf}{%
250
       Drivers other than `pdftex' and `luatex' are not supported%
251
252
253
      \endgroup
      \newcommand*{\epstopdfsetup}[1]{}%
254
     \expandafter\ETE@AtEnd
255
    \fi%
256
257 \fi%
258 \endgroup
```

Check, whether the shell escape feature is enabled.

259 \begingroup

```
\expandafter\ifx\csname pdf@shellescape\endcsname\relax
260
261
      \ifnum\pdf@shellescape>0 %
262
      \else
^{263}
        \@PackageWarningNoLine{epstopdf}{%
264
265
         Shell escape feature is not enabled%
266
        }%
267
      \fi
    \fi
268
269 \endgroup
```

2.5 Package loading

2.6 Options

```
270 \SetupKeyvalOptions{family=ETE,prefix=ETE@}
271 \DeclareBoolOption{update}
272 \DeclareBoolOption{verbose}
273 \newif\ifETE@prepend
274 \DeclareVoidOption{prepend}{\ETE@prependtrue}
276 \DeclareStringOption{outdir}
277 \DeclareStringOption{suffix}
278 \DeclareBoolOption{prefersuffix}
279 \DeclareStringOption{program@epstopdf}
Options disable and enable are for testing only. Therefore they are not documented
on purpose.
280 \DeclareBoolOption{disable}
281 \DeclareComplementaryOption{enable}{disable}
282 \newcommand*{\epstopdfsetup}{\setkeys{ETE}}
2.6.1 Default setting
283 \epstopdfsetup{%
```

```
283 \epstopdfsetup{%
284 verbose,%
285 enable,%
286 append,%
287 update,%
288 prefersuffix,%
289 suffix=-\SourceExt-converted-to,%
290 program@epstopdf=epstopdf%
291 }
```

2.7 Make and verbose

```
292 \begingroup\expandafter\expandafter\expandafter\endgroup
293 \expandafter\ifx\csname pdf@filemoddate\endcsname\relax
    \def\ETE@Make#1#2{\%}
294
      \ifETE@update
295
296
       \ETE@WarnModDate
297
      \fi
298
      \@firstofone
299
    }%
    \def\ETE@WarnModDate{%
300
      \verb|\QPackageWarningNoLine{epstopdf}|{\%}|
301
       \string\pdffilemoddate\space is not available,\MessageBreak
302
       option `update' will be ignored%
303
304
      \global\let\ETE@WarnModDate\relax
305
306
307
    \def\ETE@FileInfo#1#2{#1 file: <#2>}%
308 \else
    \def\ETE@Make#1#2{%
```

```
\ifETE@update
310
       \label{lemoddate} $$  \lim \phi \operatorname{def}(\theta) = (\#1) {\phi d\theta date {\#2}} > 0 % $$
311
         \expandafter\expandafter\expandafter\@firstofone
312
313
         \@PackageInfoNoLine{epstopdf}{%
314
315
          Output file is already uptodate%
316
317
         \expandafter\expandafter\@gobble
       \fi
318
      \else
319
       \expandafter\@firstofone
320
      \fi
321
322
    \def\ETE@FileInfo#1#2{%
323
      #1 file: <#2>%
324
325
      \expandafter\expandafter\expandafter
326
      \ETE@Date\pdf@filemoddate{#2}\@nil
      \expandafter\expandafter\expandafter
327
      \ETE@Size\pdf@filesize{#2}\@nil
328
329
    }%
    \def\ETE@Date#1\@nil{%}
330
      \ifx\\#1\\%
331
332
      \else
       \ETE@@Date#1\@nil
333
334
335
    \def\ETE@@Date#1:#2#3#4#5#6#7#8#9{%
336
337
      \MessageBreak
338
      \@spaces\space\space\space date: #2#3#4#5-#6#7-#8#9 %
      \ETE@@Time
339
340
    \def\ETE@@Time#1#2#3#4#5#6#7\@nil{%
341
342
      #1#2:#3#4:#5#6%
343 }%
    \def\ETE@Size#1\@nil{%
344
345
      \ifx\\#1\\%
346
347
       \MessageBreak
348
       \@spaces\space\space\space size: #1 bytes%
349
350 }%
351 \fi
```

2.8 Adding conversion support

Patch $\Gin@setfile$ to execute #3, if it contains a command.

```
352 \expandafter\ifx\csname ETE@OrgGin@setfile\endcsname\relax
{\tt 353} \quad \verb|\et\ETE@OrgGin@setfile\Gin@setfile|}
354 \else
     \@PackageError{epstopdf}{%
355
      Command \string\ETE@OrgGin@setfile\space
356
      already defined.\MessageBreak
357
358
     }{%
      Probably some package has included the code of this package%
360
      instead of using \string\RequirePackage{epstopdf}.%
361
362
      \MessageBreak
      \@ehc
363
364 }%
365 \fi
366 \def\ETE@IfFileExists{%
    \begingroup\expandafter\expandafter\expandafter\endgroup
    \expandafter\ifx\csname grffile@IfFileExists\endcsname\relax
```

```
\expandafter\IfFileExists
369
370
    \else
      \global\let\ETE@IfFileExists\grffile@IfFileExists
371
      \expandafter\grffile@IfFileExists
372
373
374 }
375 \def\ETE@Skip#1#2\x\fi\fi{%
376
377
    \fi
    \endgroup
378
    \fi
379
    \fi
380
381
    #1%
382 }
383 \newif\ifETE@InsideSetfile
384 \newcommand*{\epstopdfcall}[1]{%
    \ifETE@InsideSetfile
     \expandafter\@firstoftwo
386
    \else
387
388
     \expandafter\@secondoftwo
389
    \fi
    {`#1}%
390
    {\Gin@base\Gin@ext}%
391
392 }
393 \def\ETE@DefCommandLine#1{%
    395 }
396 \def\ETE@DefX#1{%
397
    \expandafter\expandafter\def
398
    \expandafter\expandafter\x
    \verb|\expandafter| expandafter| expandafter| %
399
400
      \verb|\expandafter\fi'| #1\relax\else|
401 }%
402 }
403 \det ETE@Gin@setfile#1#2#3{%}
    \ifETE@disable
     \label{eq:energy} $$ \ETE@OrgGin@setfile{#1}{#2}{#3}% $$
406
407
      \begingroup
       \ETE@InsideSetfiletrue
408
       \ETE@DefX{#3}%
409
      \expandafter\endgroup
410
      \int x\ensuremath{\mbox{Qempty}}
411
412
       \label{lem:energy} $$ \ETE@OrgGin@setfile{#1}{#2}{#3}% $$
413
      \else
414
       \begingroup
415
         \ETE@InsideSetfiletrue
416
         \def\GraphicsType{#1}%
417
         \def\GraphicsRead{\#2}\%
418
         \ifETE@prefersuffix
         \else
419
          \ifx\ETE@suffix\@empty
420
          \else
421
            \ETE@IfFileExists{\Gin@base\GraphicsRead}{%
422
423
             \ETE@Skip{%
424
              425
             }%
426
           }{%
             \let\next\relax
427
           }%
428
429
           \next
          \fi
430
```

```
\fi
431
         \ifx\Gin@ext\relax
432
          \let\SourceExt\Gin@eext
433
          \def\SourceFile{\Gin@base\Gin@eext}%
434
435
         \else
436
          \let\SourceExt\Gin@ext
437
          \def\SourceFile{\Gin@base\Gin@ext}%
438
         \edef\SourceExt{% remove dot
439
          \expandafter\@cdr\SourceExt\@empty\@nil
440
         }%
441
         \let\OutputDirectory\ETE@outdir
442
         \ifx\OutputDirectory\@empty
443
          \edef\OutputFile{\ETE@GenerateName{\Gin@base}{#2}}%
444
445
446
           \begingroup
            \filename@parse{\Gin@base#2}%
447
            \edef\x{\endgroup
448
             \def\noexpand\OutputFile{\%}
449
450
               \ETE@GenerateName{%
                \OutputDirectory\filename@base
451
               }{#2}%
452
             }%
453
            }%
454
          \x
455
         \fi
456
         \ETE@DefCommandLine{#3}%
457
458
         \ifETE@verbose
          \@PackageInfo{epstopdf}{%
459
            \verb|\ETE@FileInfo{Source}| SourceFile| MessageBreak| \\
460
            \verb|\ETE@FileInfo{Output}| OutputFile\\| MessageBreak||
461
462
            Command: <\CommandLine>\MessageBreak
463
            \string\includegraphics
          }%
464
465
466
         \ETE@Make\SourceFile\OutputFile{%
467
          \pdf@system{\CommandLine}%
468
          \ifETE@verbose
469
            \@PackageInfoNoLine{epstopdf}{%
             \ETE@FileInfo{Result}\OutputFile
470
            }%
471
472
           ۱fi
         }%
473
474
         \edef\x{\endgroup
475
          \ifx\OutputDirectory\@empty
476
477
            \def\noexpand\Gin@base{\%}
478
             \verb|\OutputDirectory\\| no expand\\| file name @base
479
            }%
          \fi
480
          \ifx\ETE@suffix\@empty
481
          \else
482
            \edef\noexpand\Gin@base{%
483
             \noexpand\Gin@base\ETE@suffix
484
            }%
485
486
487
           \noexpand\ETE@OrgGin@setfile{%
488
            \GraphicsType
489
          }{%
            \GraphicsRead
490
          }{%
491
            \OutputFile
492
```

```
493 }%
494 }%
495 \x
496 \fi
497 \fi
498 }
499 \let\Gin@setfile\ETE@Gin@setfile
500 \def\ETE@GenerateName#1#2{%
501 #1\ETE@suffix#2%
502 }
```

2.9 Declare graphics rule

```
503 \newcommand*{\epstopdfDeclareGraphicsRule}[4]{\%
              \ifx\\#4\\%
504
                  \@PackageError{epstopdf-base}{%
505
                      Conversion command is missing%
506
507
                  \\\ehc
508
              \else
                  \begingroup
509
                      \ensuremath{\texttt{Gin@rule@\#1}}{\%}
510
511
                      }{%
512
                           \Color= \Col
513
                              Redefining graphics rule for `#1'%
514
                          7%
                     }%
515
                  \endgroup
516
                  \label{lem:condition} $$ \operatorname{Gin@rule@#1}$##1{{#2}{#3}{\operatorname{lopstopdfcall}$#4}}}\% $$
517
518
519 }
           \DeclareGraphicsRule for .eps
520 \epstopdfDeclareGraphicsRule{.eps}{pdf}{.pdf}{%
521
              \ETE@epstopdf{#1}%
522 }
523 \ensuremath{\mbox{ LTE@epstopdf}\#1{\%}}
              \ETE@program@epstopdf\space
524
              \ifcase\ifx\OutputDirectory\@empty
525
                                \ifx\ETE@suffix\@empty
526
                                     1%
527
                                 \fi
528
                             \fi
529
                            0 %
530
531
                  --outfile=\OutputFile\space
532
             \fi
533
             #1%
534 }
535 \ifETE@prepend
             \verb|\expandafter| PrependGraphicsExtensions| \\
537 \else
538
             \verb|\expandafter| Append Graphics Extensions|
539 \fi
540 {.eps}
541 \let\ETE@prepend\@undefined
542 \DeclareVoidOption{prepend}{%
             \PrependGraphicsExtensions{.eps}%
544 }
545 \let\ETE@append\@undefined
546 \DeclareVoidOption{append}{%
547
             \AppendGraphicsExtensions{.eps}%
548 }
549 \InputIfFileExists{epstopdf-sys.cfg}{}{}
```

3 Test

3.1 Preface for standard catcode check

```
553 (*test1)
554 \input miniltx.tex\relax
555 \def\Gin@driver{pdftex.def}
556 \input graphicx.sty\relax
557 \resetatcatcode
558 (/test1)
```

3.2 Catcode checks for loading

```
559 (*test1)
560 \color= 1 \%
561 \color= 2 \%
562 \catcode`\#=6 %
563 \catcode`\@=11 %
564 \expandafter\ifx\csname count@\endcsname\relax
565 \countdef\count@=255 %
168 \leq 16\%
569 \fi
570 \end{small} \end{small} 570 \end{small} \end{sma
571 \long\def\@firstofone#1{#1}%
572 \fi
573 \expandafter\ifx\csname loop\endcsname\relax
574 \expandafter\@firstofone
575 \else
576 \expandafter\@gobble
577 \fi
578 {%
579 \def \leq 1\repeat {\%}
580
                           \def\body{#1}\%
                                \iterate
581
582 }%
                         \def\iterate{%
583
                            \body
584
585
                                       \let\next\iterate
586
                                \else
587
                                       \let\next\relax
588
                                \fi
589
                                \next
590 }%
591
                        \left| \cdot \right| = \left| \cdot \right|
592 }%
593 \def\RestoreCatcodes{}
594 \count@=0 %
595 \loop
                        \edef\RestoreCatcodes{%
596
597
                                 \RestoreCatcodes
                                \catcode\the\count@=\the\catcode\count@\relax
599 }%
600 \ifnum\count@<255 \%
601 \advance\count@ 1 %
602 \text{ } \text{repeat}
603
604 \ensuremath{\mbox{\sc forester}}\xspace 1000 \ensuremath{\mb
```

```
\count@=#1\relax
605
606
    \loop
      \catcode\count@=15 %
607
    \index(0) = \frac{2\pi}{2}
608
     \advance\count@ 1 %
609
610
    \repeat
611 }
612 \def\RangeCatcodeCheck#1#2#3{\%}
    \c =#1\relax
613
    \loop
614
      \ifnum#3=\catcode\count@
615
      \else
616
617
       \errmessage{%
        Character \the\count@\space
618
        with wrong catcode \the\catcode\count@\space
619
620
        instead of \number#3%
621
       }%
622
     \fi
    623
624
     \advance\count@ 1 %
625
    \repeat
626 }
627 \def\space{}
628 \expandafter\ifx\csname LoadCommand\endcsname\relax
    \def\LoadCommand{\input epstopdf.sty\relax}%
630 \fi
631 \def\Test{%
    \RangeCatcodeInvalid{0}{47}%
632
633
    \RangeCatcodeInvalid{58}{64}%
634
    \RangeCatcodeInvalid{91}{96}%
    \RangeCatcodeInvalid{123}{255}%
635
    \catcode`\@=12 %
636
    \color=0 \%
637
    \catcode`\%=14 %
638
   \LoadCommand
639
640 \RangeCatcodeCheck{0}{36}{15}%
   \RangeCatcodeCheck{37}{37}{14}%
642 \RangeCatcodeCheck{38}{47}{15}%
643 \RangeCatcodeCheck{48}{57}{12}%
644 \RangeCatcodeCheck{58}{63}{15}%
    \RangeCatcodeCheck{64}{64}{12}%
645
    \RangeCatcodeCheck{65}{90}{11}\%
646
    \RangeCatcodeCheck{91}{91}{15}%
647
648
    \RangeCatcodeCheck{92}{92}{0}%
649
    \RangeCatcodeCheck{93}{96}{15}%
    \RangeCatcodeCheck{97}{122}{11}%
    \RangeCatcodeCheck{123}{255}{15}%
652
    \RestoreCatcodes
653 }
654 \Test
655 \csname @@end\endcsname
656 \end
657 \langle / \text{test1} \rangle
```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

CTAN:macros/latex/contrib/oberdiek/epstopdf.dtx The source file.

¹http://ctan.org/pkg/epstopdf

CTAN:macros/latex/contrib/oberdiek/epstopdf.pdf Documentation.

Bundle. All the packages of the bundle 'oberdiek' are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard "A Directory Structure for TeX Files" (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

4.3 Package installation

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain T_FX:

```
tex epstopdf.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
\begin{array}{lll} {\rm epstopdf.sty} & \to {\rm tex/latex/oberdiek/epstopdf.sty} \\ {\rm epstopdf-base.sty} & \to {\rm tex/latex/oberdiek/epstopdf-base.sty} \\ {\rm epstopdf.pdf} & \to {\rm doc/latex/oberdiek/epstopdf.pdf} \\ {\rm test/epstopdf-test1.tex} & \to {\rm doc/latex/oberdiek/epstopdf.test1.tex} \\ {\rm epstopdf.dtx} & \to {\rm source/latex/oberdiek/epstopdf.dtx} \end{array}
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

4.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run texhash or mktexlsr.

4.5 Some details for the interested

Unpacking with IATEX. The .dtx chooses its action depending on the format: plain TEX: Run docstrip and extract the files.

LATEX: Generate the documentation.

If you insist on using \LaTeX for docstrip (really, docstrip does not need \LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{epstopdf.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

\PassOptionsToClass{a4paper}{article}

An example follows how to generate the documentation with pdfIATEX:

```
pdflatex epstopdf.dtx
makeindex -s gind.ist epstopdf.idx
pdflatex epstopdf.dtx
makeindex -s gind.ist epstopdf.idx
pdflatex epstopdf.dtx
```

5 Catalogue

The following XML file can be used as source for the TEX Catalogue. The elements caption and description are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is epstopdf-pkg.xml.

```
658 (*catalogue)
659 <?xml version='1.0' encoding='us-ascii'?>
660 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
661 <entry datestamp='$Date$' modifier='$Author$' id='epstopdf-pkg'>
662 <name>epstopdf-pkg</name>
663 <caption>Call epstopdf "on the fly"</caption>
    <authorref id='auth:oberdiek'/>
664
    <copyright owner='Heiko Oberdiek' year='2001,2006-2010'/>
    <license type='lppl1.3'/>
    <version number='2.6'/>
667
668
    <description>
      The package adds support for EPS files in the
669
      <xref refid='graphicx'>graphicx</xref> package when running under
670
      PDFTeX. If an EPS graphic is detected, the package spawns a
671
      process to convert the EPS to PDF, using the script
672
      <xref refid='epstopdf'>epstopdf</xref>. This of course requires
673
674
      that shell escape is enabled for the PDFTeX run.
675
      The package is part of the xref refid='oberdiek'>oberdiek
676
677
      bundle.
678 </description>
679
    <documentation details='Package documentation'</pre>
       href='ctan:/macros/latex/contrib/oberdiek/epstopdf.pdf'/>
680
681 <ctan file='true' path='/macros/latex/contrib/oberdiek/epstopdf.dtx'/>
682 <miktex location='oberdiek'/>
683 <texlive location='oberdiek'/>
684 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
685 </entry>
686 (/catalogue)
```

6 History

[2001/01/06 v1.0]

• First public version, published in the pdfT_EX mailing list.

[2001/02/04 v1.1]

- Minor documentation update.
- CTAN.

[2006/02/20 v1.2]

- DTX framework.
- Compatibility for miniltx.tex.

[2006/08/26 v1.3]

 Check for \write18 if available and print a warning if the feature is not enabled.

[2007/04/26 v1.4]

• Documentation rewritten and extended.

[2007/10/02 v1.5]

- New option update: If the converted file exists, it will be only converted if
 it is out of date.
- Updating the extension list is delegated to package grfext. Fine tuning is done by the new options append, prepend.
- New option outdir for changing the output directory.
- New option verbose.
- \SourceFile and \OutputFile introduced.
- Configuration file support added.

[2007/11/11 v1.6]

• Use of package pdftexcmds for LuaT_FX support.

[2008/05/06 v1.7]

• Warning messages uses "loaded" instead of "found".

[2009/03/01 v1.8]

• Warning message for missing pdftex.def changed.

[2009/07/06 v1.9]

• Option suffix added.

[2009/07/07 v1.10]

- \SourceExt added.
- If option suffix is set, the inclusion of an image without the suffix namespace is preferred over generating the the image within the suffix namespace.

[2009/07/12 v2.0]

- New default settings.
- Package is split into epstopdf that only takes package options and loads epstopdf-base that does the work.
- \bullet \epstopdfDeclareGraphicsRule and \epstopdfcall added.
- epstopdf-sys.cfg is loaded before epstopdf.cfg if epstopdf-sys.cfg exists.

[2009/07/15 v2.1]

- Default setting: verbose is now turned on as the documentation for v2.0 said.
- Documentation fixes.

[2009/07/16 v2.2]

- Fixed redefined \Gin@setfile.
- Documentation extended for package options.

[2009/09/24 v2.3]

• Bug fix for the case that both option suffix and outdir are used.

[2009/10/17 v2.4]

• The name of the program 'epstopdf' can be configured via the new option program@epstopdf.

[2016/05/15 v2.5]

- $\bullet\,$ Wording of warning message fixed (Karl Berry).
- \ETE@Gin@setfile added (Karl Berry).

[2016/05/15 v2.6]

• luaTeX compatibility

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