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.

1

4

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R	<pre>tequired: * The program 'epstopdf'. * The feature '\write18' has to be enabled to get</pre>					
U	The package is loaded after graphic{s,x}, eg:					

the pdf file is already available, so the

On the next ocurrences or on the next pdfTeX run,

```
conversion step is skipped.
* Explicitly: \includegraphics{bild.eps}
  Each time the conversion program is called.
```

$\mathbf{2}$ Implementation

```
1 (*package)
```

Relead check and identification

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

```
\expandafter\let\expandafter\x\csname ver@epstopdf.sty\endcsname
     \ifcase 0%
       \ifx\x\relax % plain
 5
 6
         \ifx\x\empty % LaTeX
 9
           1%
10
         \fi
       \fi
11
     \else
12
       \expandafter\ifx\csname PackageInfo\endcsname\relax
13
         \def\x#1#2{%}
14
           \immediate\write-1{Package #1 Info: #2.}%
15
16
17
18
         \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
19
       \x{epstopdf}{The package is already loaded}%
20
21
       \endgroup
       \expandafter\endinput
22
     \fi
23
24 \endgroup
Package identification:
25 \begingroup
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
26
       27
         \immediate\write-1{Package: #3 #4}%
28
         \xdef#1{#4}%
29
       }%
30
     \else
31
       \def \x#1#2[#3]{\endgroup}
32
         #2[{#3}]%
33
34
         \int x#1\relax
35
           \xdef#1{#3}%
36
         \fi
       }%
37
38
39 \expandafter\x\csname ver@epstopdf.sty\endcsname
40 \ProvidesPackage{epstopdf}%
     [2006/08/26 \text{ v1.3 Conversion with epstopdf on the fly (HO)}]
2.2
      Help macros for miniltx mode
```

```
42 \@ifundefined{PackageWarning}{%
43
   \def\PackageWarning#1#2{%
44
     \begingroup
        \newlinechar=10 %
45
        \def\MessageBreak{%
46
47
          ^^J(#1)\@spaces\@spaces\@spaces
```

```
48
         \immediate\write16{^^JPackage #1 Warning: #2\on@line.^^J}%
49
50
      \endgroup
    }%
51
52 }{}
53 \@ifundefined{PackageWarningNoLine}{%
    \def\PackageWarningNoLine#1#2{%
54
55
      \PackageWarning{#1}{#2\@gobble}%
    }%
56
57 }{}
58 \@ifundefined{on@line}{%
    \def\on@line{ on input line \the\inputlineno}%
59
60 }{}
61 \@ifundefined{@spaces}{%
    \def\@spaces{\space\space\space\%
63 }{}
```

2.3 Checks

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

```
64 \begingroup\expandafter\expandafter\endgroup
65 \expandafter\ifx\csname Gin@setfile\endcsname\relax
66 \PackageWarningNoLine{epstopdf}{%
67 No graphics package \string'graphic{s,x}\string' found%
68 }%
69 \expandafter\endinput
70 \fi
```

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

```
71 \begingroup
    \def\x{pdftex.def}%
72
    \ifx\Gin@driver\x
73
74
    \else
      \PackageWarningNoLine{epstopdf}{%
75
76
        Graphics driver file \string'pdftex.def\string' not found%
77
78
      \expandafter\endgroup\expandafter\endinput
79
    \fi
80 \endgroup
```

Check, whether the shell escape feature is enabled.

```
81 \begingroup
    \expandafter\ifx\csname pdfshellescape\endcsname\relax
82
    \else
83
      \ifnum\pdfshellescape>0 %
84
85
         \PackageWarningNoLine{epstopdf}{%
86
           Shell escape feature is not enabled%
87
88
        }%
89
      \fi
    \fi
90
91 \endgroup
```

2.4 Adding conversion support

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

```
92 \let\ETEorg@Gin@setfile\Gin@setfile
93 \def\Gin@setfile#1#2#3{%
94 \if'\@car #3\relax\@nil
95 \immediate\write18{\@cdr #3\@empty\@nil}%
96 \ETEorg@Gin@setfile{#1}{#2}{\Gin@base #2}%
```

```
\else
97
98
       \ETEorg@Gin@setfile{#1}{#2}{#3}%
99
     \fi
100 }
   Adding .eps at the end of the list of extensions, defined by \DeclareGraphicsExtensions.
101 \@ifundefined{Gin@extensions}{%
    \def\Gin@extensions{.eps}%
102
103 }{%
     \expandafter\ifx\expandafter\indent\Gin@extensions\indent
104
       \def\Gin@extensions{.eps}%
105
106
     \else
       \expandafter\def\expandafter\Gin@extensions\expandafter{%
107
108
         \Gin@extensions,.eps%
       ጉ%
109
     \fi
110
111 }
   \DeclareGraphicsRule for .eps
112 \@namedef{Gin@rule@.eps}#1{{pdf}{.pdf}{'epstopdf #1}}
113 (/package)
```

3 Installation

CTAN. This package is available on CTAN¹:

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

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

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

```
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} \texttt{epstopdf.sty} & \to & \texttt{tex/latex/oberdiek/epstopdf.sty} \\ \texttt{epstopdf.pdf} & \to & \texttt{doc/latex/oberdiek/epstopdf.pdf} \\ \texttt{epstopdf.dtx} & \to & \texttt{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.

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

3.1 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the .dtx source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk epstopdf.pdf unpack_files output .
```

¹ftp://ftp.ctan.org/tex-archive/

Unpacking with LATEX. The .dtx chooses its action depending on the format:

plain-T_EX: 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
```

4 History

[2001/01/06 v1.0]

• First public version, published in the pdfTEX 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.

5 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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