# The embedfile package

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#### Abstract

This package embeds files to a PDF document. Currently pdfTeX  $\xi$ = 1.30 in PDF mode is supported only.

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# 1 Documentation

### 1.1 Introduction

The PDF format ([3]) allows the inclusion of files inside the PDF document. The included files can be bound to an annotation on a page. Or they can be recorded in a sorted list of embedded files. The packages attachfile or attachfile2 follow the first approach, this package uses the latter method.

#### 1.1.1 Future development

My dream is a large package that merges the features of all these packages meantioned before:

- Files can be attached to a page.
- Files can be attached to the document.
- An easy user interface for simple, common tasks and beginners.
- An interface for the advanced users that want to setup every detail.
- Support of many drivers (pdftex, dvips, dvipdfm, ...).
- ...

However, I have not managed to take the time for this project. Instead:

- First I experimented with package attachfile, adding driver support, fixing bugs, .... The result is currently named as attachfile2. It uses an external script to get file properties (size, date, checksum, ...).
- In order to avoid an external program for getting basic file properties I provided a patch "EscapeAndOther" for pdfTeX that was accepted for version 1.30.
- This package closes a gap left by the packages for attaching files and allows the embedding of files to the document. Also it makes use of the new primitives of pdfTEX.

#### 1.2 User interface

This package embedfile can be used with both LATEX and plain-TEX. See subsubsection 1.3.1 that explains the use with plain-TEX by an example. In LATEX the package is loaded as usually. There are no options.

\usepackage{embedfile}

#### \embedfile $[\langle options \rangle]$ $\{\langle file \rangle\}$

The macro \embedfile includes file  $\langle file \rangle$  and attaches it to the PDF document. At the end of the document the sorted list of embedded files are written. Thus you can safely use \embedfile before \end{document}. Embedding files using \AtEndDocument will only work, if \AtEndDocument is called before loading the package embedfile

The *(options)* are give as key value pairs. The following keys are supported:

**filespec** This allows to override the file name that appears in the PDF file. If you are using other than simple file names (8bit, path separators, ...), look into the PDF specification ([3]). There are rules how these file names must be written/encoded.

**filesystem** This sets the entry /FS in the file specification dictionary, see PDF specification ([3]). Example: filesystem=URL.

**mimetype** This sets the mime type ([4]) of the file, see subsubsection 1.3.1 for examples and [5] for a list of officially registered types.

**desc** The description for the file.

stringmethod The package must convert the values of the keys filespec and desc into a PDF string. If hyperref is found, then its \pdfstringdef will be used, otherwise pdfTEX's \pdfescapestring is used. Value psd forces the use of \pdfstringdef, value escape the use of \pdfescapestring.

### 1.3 Examples

### 1.3.1 plain-TeX

The package can be used with plain-TEX. Because is uses package keyval and \@ifnextchar, it needs a little help from miniltx.tex.

If additionally package keyval (graphicx) is needed, load it first. Then package embedfile avoids a duplicate loading of package keyval.

Because plain-TeX does not provide a hook at end of the document, you have to call \embedfilefinish manually at the end after the last embedded file.

```
1 (*exampleplain)
 2 % Load packages
 3 \input miniltx
 4 % \def\Gin@driver{pdftex.def}
 5 % \input graphicx.sty
 6 \input embedfile.sty
 7 \resetatcatcode
 8
    % default setting
10 \embedfilesetup{
11
    mimetype=text/plain
12 }
13
    % Embed files
14
15 \embedfile[
    filespec=example.tex,
17
    desc={Source code (plain-TeX) of this example}
18]{embedfile-example-plain.tex}
19
20 \embedfile[
21
    desc={Source of package 'embedfile'}
22 ]{embedfile.dtx}
23
24 \embedfile[
25
   mimetype=application/pdf,
    desc={Documentation of package 'embedfile',}
27 ]{embedfile.pdf}
    % Some text
29
30 This example document contains three embedded files.
    % End of document
33 \embedfilefinish % don't forget
34 \bve
35 (/exampleplain)
```

### 1.4 Package dtx-attach

Package dtx-attach is just a small application of package embedfile. I am using it for the CTAN documentation of my packages in CTAN:macros/latex/contrib/oberdiek/. It also serves as small example for the use of the package with LATEX.

# 2 Implementation

```
47 (*package)
```

## 2.1 Reload check and package identification

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

```
48 \begingroup
     \expandafter\let\expandafter\x\csname ver@embedfile.sty\endcsname
50
     \ifcase 0%
       \ifx\x\relax % plain
51
       \else
52
         \ifx\x\empty % LaTeX
53
         \else
54
55
           1%
         \fi
56
       \fi
57
58
       \expandafter\ifx\csname PackageInfo\endcsname\relax
59
60
         \def\x#1#2{%}
           \immediate\write-1{Package #1 Info: #2.}%
61
         }%
62
       \else
63
         \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
64
       \fi
65
       \x{embedfile}{The package is already loaded}%
66
67
       \endgroup
68
       \expandafter\endinput
69
     \fi
70 \endgroup
Package identification:
71 \begingroup
     \expandafter\ifx\csname ProvidesPackage\endcsname\relax
72
73
       \def\x#1#2#3[#4]{\endgroup}
74
         \immediate\write-1{Package: #3 #4}%
75
         \xdef#1{#4}%
       }%
76
     \else
77
       \def\x#1#2[#3]{\endgroup}
78
79
         #2[{#3}]%
         \int x#1\relax
80
           \xdef#1{#3}%
81
         \fi
82
       }%
83
84
85 \expandafter\x\csname ver@embedfile.sty\endcsname
86 \ProvidesPackage{embedfile}%
     [2006/08/16 v1.0 embed files into PDF (HO)]
87
88 \edef\EmbedFileRestoreCatcodes{%
     \catcode39 \the\catcode39 % '
89
     \catcode40 \the\catcode40 % (
90
     \catcode41 \the\catcode41 % )
91
     \catcode47 \the\catcode47 % /
92
93
     \catcode60 \the\catcode60 % <
94
     \catcode62 \the\catcode62 % >
     \catcode64 \the\catcode64 % @
95
     \catcode91 \the\catcode91 % [
96
     \catcode93 \the\catcode93 % ]
97
     \colored{catcode96 \% }
98
99 }
100 \catcode39 12 % '
101 \catcode40 12 % (
```

```
102 \catcode41 12 % )
103 \catcode47 12 % /
104 \catcode60 12 % <
105 \catcode62 12 % >
106 \catcode64 11 % @
107 \catcode91 12 % [
108 \catcode93 12 % ]
109 \catcode96 12 % '
```

#### 2.2 Tools

\EmbedFile@PackageError

```
110 \begingroup\expandafter\expandafter\expandafter\endgroup
111 \expandafter\ifx\csname PackageError\endcsname\relax
     \def\EmbedFile@PackageError#1#2{%
112
113
       \errhelp{#2}%
       \errmessage{Package embedfile Error: #1.}%
114
    }%
115
116 \else
117
     \def\EmbedFile@PackageError#1#2{%
118
       \begingroup
         \let\on@line\empty
119
         \PackageError{embedfile}{#1}{#2}%
120
121
       \endgroup
    }%
122
123 \fi
```

\EmbedFile@RequirePackage

```
124 \begingroup\expandafter\expandafter\expandafter\endgroup
125 \expandafter\ifx\csname RequirePackage\endcsname\relax
126
     \def\EmbedFile@RequirePackage#1#2{%
127
       \expandafter\ifx\csname #2\encsname\relax
128
         \input #1.sty\relax
       \fi
129
    }%
130
131 \else
     \def\EmbedFile@RequirePackage#1#2{%
132
       \expandafter\ifx\csname #2\endcsname\relax
133
134
         \RequirePackage{#1}%
135
136
    }%
137 \fi
```

# 2.3 Check for recent pdfTFX in PDF mode

Load package ifpdf and check mode.

```
138 \EmbedFile@RequirePackage{ifpdf}{ifpdf}
139 \ifpdf
140 \else
                               \EmbedFile@PackageError{%
141
142
                                         Missing pdfTeX in PDF mode%
143
                            }{%
                                           Currently other drivers are not supported. Package loading is aborted.%
144
145
                               \EmbedFileRestoreCatcodes
146
147
                               \expandafter\endinput
148 \fi
Check version.
149 \verb|\begingroup\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter\expandafte
150 \expandafter\ifx\csname pdffilesize\endcsname\relax
```

51 \EmbedFile@PackageError{%

```
153
                              At least version 1.30 is necessary. Package loading is aborted.%
                       154
                       155
                       156
                            \EmbedFileRestoreCatcodes
                       157
                            \expandafter\endinput
                       158 \fi
                             Key value definitions
                       2.4
                       159 \EmbedFile@RequirePackage{keyval}{define@key}
                       160 \def\EmbedFile@DefineKey#1#2{%
                       161
                            \define@key{EmbedFile}{#1}{%
                              \expandafter\def\csname EmbedFile@#1\endcsname{##1}%
                       162
                       163
                       164
                            \expandafter\def\csname EmbedFile@#1\endcsname{#2}%
                       165 }
                       Subtype of the embedded file (optional).
                       166 \EmbedFile@DefineKey{mimetype}{}
                       File specification string.
                       167 \EmbedFile@DefineKey{filespec}{\EmbedFile@file}
                       File system (optional).
                       168 \EmbedFile@DefineKey{filesystem}{}
                       Description (optional).
                       169 \EmbedFile@DefineKey{desc}{}
                       Method for converting text to PDF strings.
                       170 \EmbedFile@DefineKey{stringmethod}{%
                            \ifx\pdfstringdef\@undefined
                       171
                       172
                              escape%
                            \else
                       173
                       174
                              \ifx\pdfstringdef\relax
                       175
                                escape%
                       176
                              \else
                       177
                                psd%
                              \fi
                       178
                            \fi
                       179
                       180 }
     \embedfilesetup
                       181 \def\embedfilesetup{%
                            \setkeys{EmbedFile}%
                       183 }
                       2.5
                             Embed the file
          \embedfile
                       184 \def\embedfile{%
                            \@ifnextchar[\EmbedFile@embedfile{\EmbedFile@embedfile[]}%
                       186 }
\EmbedFile@embedfile
                       187 \def\EmbedFile@embedfile[#1]#2{%
                       188
                            \ifEmbedFile@finished
                       189
                              \EmbedFile@PackageError{%
                       190
                                \string\embedfile\space after \string\embedfilefinish
                       191
                                The list of embedded files is already written.%
                       192
                              }%
                       193
                            \else
                       194
                              \begingroup
                       195
```

Unsupported pdfTeX version%

152

```
\setkeys{EmbedFile}{#1}%
                     197
                               \expandafter\ifx\expandafter\\\pdffilesize{\EmbedFile@file}\\%
                     198
                                 \EmbedFile@PackageError{%
                     199
                     200
                                   File '\EmbedFile@file' not found%
                     201
                                 }{%
                     202
                                   The unknown file is not embedded.%
                                 }%
                     203
                               \else
                     204
                                 \EmbedFile@convert\EmbedFile@filespec\EmbedFile@@filespec
                     205
                                 \ifx\EmbedFile@desc\empty
                     206
                                   \let\EmbedFile@@desc\empty
                     207
                     208
                                 \else
                                   \EmbedFile@convert\EmbedFile@desc\EmbedFile@@desc
                     209
                     210
                     211
                                 \immediate\pdfobj stream attr{%
                     212
                                   /Type/EmbeddedFile%
                                   \ifx\EmbedFile@mimetype\empty
                     213
                                   \else
                     214
                     215
                                     /Subtype/\pdfescapename{\EmbedFile@mimetype}%
                     216
                                   \fi
                                   /Params<<%
                     217
                                     /ModDate(\pdffilemoddate{\EmbedFile@file})%
                     218
                                     /Size \pdffilesize{\EmbedFile@file}%
                     219
                                     /CheckSum<\pdfmdfivesum file{\EmbedFile@file}>%
                     220
                     221
                                   >>%
                                 }file{\EmbedFile@file}\relax
                     222
                     223
                                 \immediate\pdfobj{%
                     224
                                   <<%
                                     /Type/Filespec%
                     225
                                     \ifx\EmbedFile@filesystem\empty
                     226
                     227
                                     \else
                     228
                                     /FS/\pdfescapename{\EmbedFile@filesystem}%
                     229
                                     /F(\EmbedFile@@filespec)%
                     230
                     231
                                     \ifx\EmbedFile@@desc\empty
                     232
                     233
                                       /Desc(\EmbedFile@@desc)%
                     234
                                     \fi
                                     /EF<<%
                     235
                                       /F \the\pdflastobj\space 0 R%
                     236
                                     >>%
                     237
                                  >>%
                     238
                     239
                     240
                                 \EmbedFile@add{%
                                   \EmbedFile@@filespec
                     242
                                 }{\the\pdflastobj\space 0 R}%
                     243
                              \fi
                     244
                            \endgroup
                     245
                          \fi
                     246 }
\EmbedFile@convert
                     247 \def\EmbedFile@convert#1#2{%
                          \ifnum\pdfstrcmp{\EmbedFile@stringmethod}{psd}=0 %
                     248
                             \pdfstringdef\EmbedFile@temp{#1}%
                     249
                     250
                            \let#2\EmbedFile@temp
                     251
                          \else
                            \edef#2{\pdfescapestring{#1}}%
                     252
                          \fi
                     253
                     254 }
                     255 \global\let\EmbedFile@list\empty
```

\def\EmbedFile@file{#2}%

196

```
\EmbedFile@add
```

Sorting is done by the insertion sort algorithm. Probably the sorting could be done more reliable. However, the PDF specification is not too clear to me regarding precise sorting rules (how to deal with different encodings, escaped characters,

```
...).
                                                     256 \def\EmbedFile@add#1#2{%
                                                     257
                                                                    \begingroup
                                                     258
                                                                          \edef\key{\pdfescapehex{#1}}%
                                                     259
                                                                          \ifx\EmbedFile@list\empty
                                                                                \xdef\EmbedFile@list{\noexpand\do{\key}{#2}}%
                                                     260
                                                     261
                                                                                \def\do##1##2{%
                                                     262
                                                                                     \ifnum\pdfstrcmp{##1}{\key}>0 %
                                                     263
                                                     264
                                                                                           \left( x_{x}\right) 
                                                     265
                                                                                                 \toks@{%
                                                                                                       \the\toks@%
                                                     266
                                                                                                       \noexpand\do{\key}{\#2}%
                                                     267
                                                     268
                                                                                                       \noexpand\do{\#1}{\#2}%
                                                                                                 }%
                                                     269
                                                                                           }%
                                                     270
                                                     271
                                                                                            \x
                                                                                            \def\do####1###2{%
                                                     272
                                                                                                 \toks@\operatorname{do}{\#\#\#1}{\#\#\#2}}\%
                                                     273
                                                                                           }%
                                                     274
                                                                                            \def\stop{%
                                                     275
                                                     276
                                                                                                  \xdef\EmbedFile@list{\the\toks@}%
                                                                                           }%
                                                     277
                                                     278
                                                                                      \else
                                                     279
                                                                                            \toks@\operatorname{toks@\det{\the\toks@\det{\#1}{\#2}}}
                                                     280
                                                                                     \fi
                                                                               }%
                                                     281
                                                                                \def\stop{%
                                                     282
                                                                                     \label{lembedFileOlist{\the\toksOnoexpand\do{\key}{\#2}}} % The $$ \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\col
                                                     283
                                                                               }%
                                                     284
                                                                                \t 0
                                                     285
                                                                                \EmbedFile@list\stop
                                                     286
                                                     287
                                                     288
                                                                    \endgroup
                                                     289 }
                                                     290 \newif\ifEmbedFile@finished
\embedfilefinish
                                                     291 \def\embedfilefinish{%
                                                     292
                                                                    \ifEmbedFile@finished
                                                     293
                                                                          \EmbedFile@PackageError{%
                                                     294
                                                                               Too many invocations of \string\embedfilefinish
                                                     295
                                                                         }{%
                                                                               The list of embedded files is already written.%
                                                     296
                                                                          }%
                                                     297
                                                                    \else
                                                     298
                                                     299
                                                                          \ifx\EmbedFile@list\empty
                                                     300
                                                                                \global\EmbedFile@finishedtrue
                                                     301
                                                     302
                                                                                \begingroup
                                                                                     \def\do##1##2{%
                                                     303
                                                                                            <##1>##2%
                                                     304
                                                     305
                                                                                     \immediate\pdfobj{%
                                                     306
                                                     307
                                                                                                  /Names[\EmbedFile@list]%
                                                     308
                                                                                           >>%
                                                     309
                                                                                     }%
                                                     310
```

```
\pdfnames{%
311
             /EmbeddedFiles \theta \ R%
312
           }%
313
314
         \endgroup
       \fi
315
316
     \fi
317 }
318 \begingroup\expandafter\expandafter\expandafter\endgroup
319 \expandafter\ifx\csname AtEndDocument\endcsname\relax
320 \else
     \AtEndDocument{\embedfilefinish}%
321
322 \fi
323 \setminus EmbedFileRestoreCatcodes
324 (/package)
```

### 3 Installation

**CTAN.** This package is available on CTAN<sup>1</sup>:

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

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

Unpacking. The .dtx file is a self-extracting docstrip archive. The files are extracted by running the .dtx through plain-T<sub>F</sub>X:

```
tex embedfile.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} \text{embedfile.sty} & \to & \text{tex/latex/oberdiek/embedfile.sty} \\ \text{dtx-attach.sty} & \to & \text{tex/latex/oberdiek/dtx-attach.sty} \\ \text{embedfile.pdf} & \to & \text{doc/latex/oberdiek/embedfile.pdf} \\ \text{embedfile-example-plain.tex} & \to & \text{doc/latex/oberdiek/embedfile-example-plain.tex} \\ \text{embedfile.dtx} & \to & \text{source/latex/oberdiek/embedfile.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 embedfile.pdf unpack\_files output .

<sup>1</sup>ftp://ftp.ctan.org/tex-archive/

Unpacking with LATEX. 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{embedfile.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 embedfile.dtx
makeindex -s gind.ist embedfile.idx
pdflatex embedfile.dtx
makeindex -s gind.ist embedfile.idx
pdflatex embedfile.dtx
```

### 4 References

- [1] Scott Pakin: The attachfile package; 2005/02/20 v1.2; CTAN:macros/latex/contrib/attachfile/.
- [2] Heiko Oberdiek: The attachfile2 package; 2006/08/16 v2.2; CTAN:macros/latex/contrib/oberdiek/attachfile2.pdf.
- [3] Adobe Systems Incorporated: *PDF Reference*, *Fifth Edition*, *Version* 1.6, November 2004; http://partners.adobe.com/public/developer/pdf/index\_reference.html.
- [4] Network Working Group: RFC 2046, Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types, November 1996; http://www.rfc-editor.org/.
- [5] IANA (Internet Assigned Numbers Authority): MIME Media Types, May 2006; http://www.iana.org/assignments/media-types/.

# 5 History

### [2006/08/16 v1.0]

• First public version,

#### 6 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.

	Symbols	\@undefined $1$	71
\@ifnextchar			

\\198	I
	\ifcase 50
$\mathbf{A}$	$\verb \label{tileq}  \textbf{ ifEmbedFileQfinished } .  188,  290,  292 \\$
\AtEndDocument	\ifnum 248, 263
	\ifpdf 139
В	\ifx 51, 53, 59, 72, 80, 111, 125,
\bye 34	127, 133, 150, 171, 174, 198,
	206, 213, 226, 231, 259, 299, 319
$\mathbf{C}$	\immediate 61, 74, 211, 223, 306
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