

The pdfcrypt package

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Abstract

This package supports the setting of pdf encryption options for VTeX and some older versions of pdfTeX.

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*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

1 Documentation

This package allows the setting of pdf encryption options for

- V_TE_X, since version 7.35, <http://www.micropress-inc.com/>.
- pdf_TE_X, patched by Ricardo Sanchez Carmenes¹.
Some supported versions are:

```
pdfTEX-1.00a,
pdfTEX-0.14h-pdfcrypt-20010310,
pdfcrypt-20010331
```

Note: Since pdf_TE_X-1.10a (2003-01-16) encryption support was dropped! Thus the package is now obsolete for recent pdf_TE_X versions.

1.1 Alternatives

There are free alternatives, programs that can be used for postprocessing the pdf file:

- pdftk
<http://www.accesspdf.com/pdftk/>
- Multivalent
<http://multivalent.sourceforge.net/>
- PDFBox
<http://www.pdfbox.org/>
- PDFTrans
<http://maddingue.free.fr/software/pdftrans.html>
- ...

1.2 Usage

The options can be set as package options or with the command `\pdfcryptsetup`:

```
owner=<owner password>
user=<user password>
print, copy, edit, annotate=true, false
all, none
debug
```

The encryption is set at `\begin{document}` by default, but this can be forced for an earlier time using the option `set`. Example:

```
\usepackage[owner=Donald,user=Knuth,print=false]{pdfcrypt}
...
\begin{document}
```

or

```
\usepackage{pdfcrypt}
\pdfcryptsetup{owner=Donald,user=Knut}
\pdfcryptsetup{print=false,set}
...
\begin{document}
```

¹Ricardo Sanchez Carmenes's email address: carmenes@bioquimica.uniovi.es

1.2.1 Special characters

The characters ‘{’, ‘}’, and ‘\’ have to be escaped with ‘\’. Then the string should not be specified as package option but with the macro `\pdfcryptsetup`, eg:

```
\pdfcryptsetup{user={\{\Hello\}},print=false}
```

The password here is “{\Hello}”. Active characters can be used and are not expanded. Macros except for `\{`, `\}`, and `\\` should not be used and are not expanded.

1.2.2 \nopdfcrypt

Often the whole process of pdf generation includes several \TeX compilations and perhaps other postprocessing steps. Therefore a feature would be useful to disable the encryption stuff in order to speed up the first compilations. Therefore package `pdfcrypt` will look for the macro `\nopdfcrypt`. If it has the meaning of the letter ‘Y’, the package will be disabled. Example:

```
pdflatex '\let\nopdfcrypt=Y\input myfile'
thumbpdf myfile
pdfelatex myfile
```

1.2.3 Configuration file

If the file `pdfcrypt.cfg` exists it is loaded and can be used for common settings.

1.2.4 Support for plain \TeX

The package can also be used with plain \TeX . It defines the missing \LaTeX macros and loads package `keyval`. The configuration file is not supported and automatically loaded.

1.3 Hints for pdf \TeX

This section is out of date, because the encryption support was removed from pdf \TeX . Therefore this hints are of historical interest only.

- * There are packages such as `thumbpdf` that ship out some stuff (`\immediate\pdfobj{...}`). In these cases `\pdfcrypt` will be ignored without warning or error message. Therefore the package `pdfcrypt` should be loaded before and option “set” should be used in order to force the call of `\pdfcrypt`, for example:

```
\usepackage{pdfcrypt}
\pdfcryptsetup{..., set}
...
\usepackage{thumbpdf}
```
- * Compiling pdf \TeX (eg. version 1.00a-pretest-20010804):
pdf \TeX versions are available at
`ftp://ftp.cstug.cz/pub/tex/local/cstug/thanh/pdftex/snapshots/`
Unpack the latest .tgz file:
`> tar xzf pdftex-20010804.tgz`
Enable encryption support:
`src> cd src/texk/web2c/pdftexdir`
`src/texk/web2c/pdftexdir> ln -fs pdfcrypt-full.c pdfcrypt.c`
Compile:
`src/texk/web2c/pdftexdir> cd ../../..`
`src> ./configure`
`src> cd texk/web2c`
`src/texk/web2c> make pdftexbin`
At last install the binary and pool files.

2 Implementation

```
1 (*package)
```

2.1 Help macros for plain T_EX

```
2 \expandafter\edef\csname pc@endinput\endcsname{%
3   \catcode'\noexpand\@=\the\catcode'\@ \relax
4   \noexpand\endinput
5 }
6 \catcode'\@=11 %
7
8 \expandafter\ifx\csname @firstoftwo\endcsname\relax
9   \long\def\@firstoftwo#1#2{#1}%
10 \fi
11
12 \expandafter\ifx\csname @secondoftwo\endcsname\relax
13   \long\def\@secondoftwo#1#2{#2}%
14 \fi
15
16 \expandafter\ifx\csname @ifundefined\endcsname\relax
17   \def\@ifundefined#1{%
18     \expandafter\ifx\csname #1\endcsname\relax
19       \expandafter\@firstoftwo
20     \else
21       \expandafter\@secondoftwo
22     \fi
23   }%
24 \fi
25
26 \@ifundefined{ifnextchar}{%
27   \long\def\ifnextchar#1#2#3{%
28     \let\reserved@d=#1%
29     \def\reserved@a{#2}%
30     \def\reserved@b{#3}%
31     \futurelet\@let@token\@ifnch
32   }%
33   \def\@ifnch{%
34     \ifx\@let@token\@sptoken
35       \let\reserved@c\@xifnch
36     \else
37       \ifx\@let@token\reserved@d
38         \let\reserved@c\reserved@a
39       \else
40         \let\reserved@c\reserved@b
41       \fi
42     \fi
43     \reserved@c
44   }%
45   \begingroup
46     \def\:{\global\let\@sptoken= }%
47     \: %
48     \def\:{\@xifnch}%
49     \expandafter\gdef\:{\futurelet\@let@token\@ifnch}%
50   \endgroup
51 }{}
52
53 \@ifundefined{ProvidesPackage}{%
54   \def\ProvidesPackage#1{%
55     \ifnextchar[{\pc@ProvidesPackage{#1}}%
56       {\pc@ProvidesPackage{#1}[]}%
57   }%
58   \def\pc@ProvidesPackage#1[#2]{%
```

```

59     \immediate\write-1{Package: #1 #2}%
60 }%
61 }{}
62
63 \begingroup\expandafter\expandafter\expandafter\endgroup
64 \expandafter\ifx\csname RequirePackage\endcsname\relax
65     \input infwarerr.sty\relax
66 \else
67     \RequirePackage{infwarerr}%
68 \fi
69
70 \@ifundefined{@gobble}{}%
71     \long\def@gobble#1{}%
72 }{}
73
74 \@ifundefined{@empty}{}%
75     \def@empty{}%
76 }{}

```

2.2 Package Identification and checks

```

77 \ProvidesPackage{pdfcrypt}%
78     [2016/05/16 v1.1 Allows the setting of PDF encryption (HO)]%
79 \@ifundefined{pdfcryptsetup}{%
80     \let\pdfcryptsetup@gobble
81 }{%
82     \@PackageWarningNoLine{pdfcrypt}{Package pdfcrypt is already loaded}%
83     \pc@endinput
84 }

```

Support for \nopdfcrypt.

```

85 \newif\ifpc@nopdfcrypt
86 \ifx Y\nopdfcrypt
87     \@PackageWarningNoLine{pdfcrypt}{%
88         Encryption disabled by \string\nopdfcrypt\space request%
89     }%
90     \global\pc@nopdfcrypttrue
91 \fi

```

2.3 Driver detection

```

92 \let\pc@driver@empty
93 \begingroup
94     % pdfTeX detection
95     \@ifundefined{pdfoutput}{%
96     }{%
97         \ifcase\pdfoutput
98         \else
99             \@ifundefined{pdfcrypt}{%
100                 \@PackageError{pdfcrypt}{%
101                     PDF encryption is not supported with this pdfTeX%
102                 }{%
103                     Encryption support was added in 0.14h (2001/03/10)\MessageBreak
104                     and removed in 1.10a (2003/01/16).%
105                 }%
106             }%
107         \endgroup
108         \pc@endinput
109     }{%
110         \gdef\pc@driver{pdftex}%
111     }%
112 \fi
113 % VTeX detection
114 \@ifundefined{OpMode}{%

```

```

115 }{%
116   \ifnum\OpMode=1 %
117     \ifnum\@ifundefined{VTeXversion}0\VTeXversion<735 %
118       \@PackageError{pdfcrypt}{%
119         PDF encryption is not supported with this VTeX%
120       }{%
121         You need VTeX 7.35 or higher.%
122       }%
123     \endgroup
124     \pc@endinput
125   \else
126     \gdef\pc@driver{vtex}%
127   \fi
128 }%
129 }%
130 \endgroup

```

2.4 Load package keyval

```

131 \@ifundefined{@makeother}{%
132   \def\@makeother#1{\catcode'#1=12\relax}%
133 }{}
134
135 \@ifundefined{g@addto@macro}{%
136   \long\def\g@addto@macro#1#2{%
137     \begingroup
138       \toks@\expandafter{#1#2}%
139       \xdef#1{\the\toks@}%
140     \endgroup
141   }%
142 }{}
143
144 \@ifundefined{@namedef}{%
145   \def\@namedef#1{\expandafter\def\csname#1\endcsname}%
146 }{}
147
148 \@ifundefined{@nameuse}{%
149   \def\@nameuse#1{\csname #1\endcsname}%
150 }{}
151
152 \def\pc@KeyvalRestore{%
153   \let\pc@KeyvalRestore\@undefined
154 }
155
156 \let\pcOrg@NeedsTeXFormat\NeedsTeXFormat
157 \@ifundefined{NeedsTeXFormat}{%
158   \def\NeedsTeXFormat#1{%
159     \g@addto@macro\pc@KeyvalRestore{%
160       \let\NeedsTeXFormat\pcOrg@NeedsTeXFormat
161     }%
162   }{}
163
164 \let\pcOrg@DeclareOption\DeclareOption
165 \@ifundefined{DeclareOption}{%
166   \def\DeclareOption#1#2{%
167     \g@addto@macro\pc@KeyvalRestore{%
168       \let\DeclareOption\pcOrg@DeclareOption
169     }%
170   }{}
171
172 \let\pcOrg@ExecuteOptions\ExecuteOptions
173 \@ifundefined{ExecuteOptions}{%
174   \def\ExecuteOptions#1{%

```

```

175 \g@addto@macro\pc@KeyvalRestore{%
176 \let\ExecuteOptions\pcOrg@ExecuteOptions
177 }%
178 }{}
179
180 \let\pcOrg@ProcessOptions\ProcessOptions
181 \ifundefined{ProcessOptions}{%
182 \def\ProcessOptions{%
183 \g@addto@macro\pc@KeyvalRestore{%
184 \let\ProcessOptions\pcOrg@ProcessOptions
185 }%
186 }{}%
187
188 \begingroup\expandafter\expandafter\expandafter\endgroup
189 \expandafter\ifx\csname RequirePackage\endcsname\relax
190 \input keyval.sty\relax
191 \else
192 \RequirePackage{keyval}%
193 \fi
194 \pc@KeyvalRestore

```

2.5 Define options

```

195 \ifundefined{@dblarg}{%
196 \long\def@dblarg#1{\ifnextchar[{\#1}{\@xdblarg{\#1}}}%
197 \long\def@xdblarg#1#2{\#1[\#2]{\#2}}%
198 }{}
199
200 \newif\ifpc@set
201 \newif\ifpc@print
202 \newif\ifpc@copy
203 \newif\ifpc@edit
204 \newif\ifpc@annotate
205 \newif\ifpc@debug
206 \let\pc@owner\@empty
207 \let\pc@user\@empty
208
209 % default: allow all
210 \pc@printtrue
211 \pc@copytrue
212 \pc@edittrue
213 \pc@annotatetrue
214
215 \edef\pc@temp{\catcode'\noexpand\"=\the\catcode'\}\relax}
216 \makeoother\"
217 \def\pc@set{%
218 \@PackageInfo{pdfcrypt}{%
219 \ifpc@debug
220 \ifx\pc@owner\@empty
221 No owner password%
222 \else
223 Owner password: '\pc@owner'%
224 \fi
225 \MessageBreak
226 \ifx\pc@user\@empty
227 No user password%
228 \else
229 User password: '\pc@user'%
230 \fi
231 \MessageBreak
232 Flags: %
233 \ifpc@print \else no\fi print, %
234 \ifpc@copy \else no\fi copy, %

```

```

235     \ifpc@edit    \else no\fi edit, %
236     \ifpc@annotate\else no\fi annotate%
237     \MessageBreak
238     \fi
239     \ifpc@nopdfcrypt
240         Encryption is disabled by '\string\nopdfcrypt'%
241     \else
242         Encryption is set for '\pc@driver'%
243     \fi
244 }%
245 \ifpc@nopdfcrypt
246 \else
247     \@ifundefined{pc@set@\pc@driver}{%
248         \ifx\pc@driver\@empty
249             \@PackageError{pdfcrypt}{No driver for encryption %
250                 support found}\@ehc
251         \else
252             \@PackageError{pdfcrypt}{Cannot set encryption for %
253                 unknown driver '\pc@driver'}\@ehc
254         \fi
255     }{%
256         \@nameuse{pc@set@\pc@driver}%
257     }%
258 \fi
259 }
260 \def\pc@set@pdftex{%
261     \ifnum\pdftexversion<100 %
262         \pc@set@pdftexold
263     \else
264         \pc@set@pdftexnew
265     \fi
266 }
267 \def\pc@set@pdftexold{%
268     \pdfcrypt{%
269         owner "\pc@owner" %
270         user "\pc@user" %
271         \ifpc@print    \else no\fi print %
272         \ifpc@copy     \else no\fi copy %
273         \ifpc@edit     \else no\fi edit %
274         \ifpc@annotate\else no\fi annotate%
275     }%
276 }
277 \def\pc@set@pdftexnew{%
278     \pdfcrypt
279     owner{\pc@owner}%
280     user{\pc@user}%
281     \ifpc@print    \else no\fi print %
282     \ifpc@copy     \else no\fi copy %
283     \ifpc@edit     \else no\fi edit %
284     \ifpc@annotate\else no\fi annotate%
285     \relax
286 }
287 \def\pc@set@vtex{%
288     \immediate\special{!security %
289         O=\pc@MakeVTeXString\pc@owner,%
290         U=\pc@MakeVTeXString\pc@user,%
291         P\ifpc@print +\else -\fi,%
292         C\ifpc@copy +\else -\fi,%
293         M\ifpc@edit +\else -\fi,%
294         A\ifpc@annotate +\else -\fi
295     }%
296 }

```



```

297 \def\pc@MakeVTeXString#1{%
298   "\expandafter\pc@@MakeVTeXString#1"\@nil"%
299 }
300 \def\pc@@MakeVTeXString#1"#2\@nil{%
301   #1%
302   \ifx\#2\%
303   \else
304     "%
305     \@ReturnAfterFi{%
306       \pc@@MakeVTeXString#2\@nil
307     }%
308   \fi
309 }
310 \long\def\@ReturnAfterFi#1\fi{\fi#1}
311 \pc@temp
312
313 \begingroup
314   \catcode'\ =12 \gdef\pc@spaceother{ }\catcode'\ =10\relax
315   \catcode'\|=0 %
316   \catcode'\ =12 %
317   \gdef\pc@DefString#1#2{%
318     \def#1{#2}%
319     \edef#1{\expandafter\strip@prefix\meaning#1}%
320     \edef#1{\expandafter\pc@SpaceToOther#1 \@nil}%
321     \edef#1{\expandafter\pc@EscapeRemove#1|@empty|@empty|@nil}%
322   }%
323   \gdef\pc@EscapeRemove#1\#2#3|@nil{%
324     #1#2%
325     \ifx\#3\%
326     \else
327       \@ReturnAfterFi{%
328         \pc@EscapeRemove#3|@nil
329       }%
330     \fi
331   }%
332 \endgroup
333 \def\pc@SpaceToOther#1 #2\@nil{%
334   #1%
335   \ifx\#2\%
336   \else
337     \pc@spaceother
338     \@ReturnAfterFi{%
339       \pc@SpaceToOther#2\@nil
340     }%
341   \fi
342 }
343
344 \def\pc@boolkey{\@dblarg\pc@@boolkey}
345 \def\pc@@boolkey[#1]#2#3{%
346   \lowercase{\def\pc@temp{#3}}%
347   \ifx\pc@temp@empty
348     \let\pc@temp\pc@true
349   \fi
350   \ifx\pc@temp\pc@true
351   \else
352     \ifx\pc@temp\pc@false
353     \else
354       \let\pc@temp\relax
355     \fi
356   \fi
357   \ifx\pc@temp\relax
358     \@PackageWarning{pdfcrypt}{%

```

```

359     Unexpected value \string'#3\string' of %
360     option \string'#2\string'\MessageBreak
361     instead of %
362     \string'true\string' or \string'false\string'%
363   }%
364 \else
365   \csname pc@#2\pc@temp\endcsname
366 \fi
367 }
368 \def\pc@true{true}
369 \def\pc@false{false}
370
371 \define@key{pc}{set}[true]{%
372   \pc@boolkey{set}{#1}%
373 }
374 \define@key{pc}{pdftex}[]{%
375   \def\pc@driver{pdftex}%
376 }
377 \define@key{pc}{vtex}[]{%
378   \def\pc@driver{vtex}%
379 }
380 \define@key{pc}{print}[true]{%
381   \pc@boolkey{print}{#1}%
382 }
383 \define@key{pc}{copy}[true]{%
384   \pc@boolkey{copy}{#1}%
385 }
386 \define@key{pc}{edit}[true]{%
387   \pc@boolkey{edit}{#1}%
388 }
389 \define@key{pc}{annotate}[true]{%
390   \pc@boolkey{annotate}{#1}%
391 }
392 \define@key{pc}{all}[]{%
393   \pc@boolkey{print}{true}%
394   \pc@boolkey{copy}{true}%
395   \pc@boolkey{edit}{true}%
396   \pc@boolkey{annotate}{true}%
397 }
398 \define@key{pc}{none}[]{%
399   \pc@boolkey{print}{false}%
400   \pc@boolkey{copy}{false}%
401   \pc@boolkey{edit}{false}%
402   \pc@boolkey{annotate}{false}%
403 }
404
405 \define@key{pc}{owner}{%
406   \pc@DefString\pc@owner{#1}%
407 }
408 \define@key{pc}{user}{%
409   \pc@DefString\pc@user{#1}%
410 }
411 \define@key{pc}{debug}[true]{%
412   \pc@boolkey{debug}{#1}%
413 }
414
415 \def\pdfcryptsetup#1{%
416   \setkeys{pc}{#1}%
417   \ifpc@set
418     \pc@set
419     \global\let\pc@set\relax
420   \gdef\pdfcryptsetup##1{%

```

```

421     \@PackageWarning{pdfcrypt}{%
422         Encryption options are already set\MessageBreak
423         new values are ignored%
424     }%
425 }%
426 \fi
427 }
428 \begingroup\expandafter\expandafter\expandafter\endgroup
429 \expandafter\ifx\csname @onlypreamble\endcsname\relax
430 \else
431     \@onlypreamble\pdfcryptsetup
432 \fi

```

2.6 support of configuration file

```

433 \begingroup\expandafter\expandafter\expandafter\endgroup
434 \expandafter\ifx\csname InputIfFileExists\endcsname\relax
435     \@PackageInfo{pdfcrypt}{%
436         Configuration file pdfcrypt.cfg not supported.%
437     }%
438 \else
439     \let\pc@ExecuteOptions\ExecuteOptions
440     \InputIfFileExists{pdfcrypt.cfg}{\relax}{\relax}%
441     \let\ExecuteOptions\pc@ExecuteOptions
442 \fi

```

2.7 Package options

Plain format does not know package options.

```

443 \begingroup\expandafter\expandafter\expandafter\endgroup
444 \expandafter\ifx\csname @classoptionslist\endcsname\relax
445     \expandafter\pc@endinput
446 \fi

```

Process global and local options.

```

447 \def\pc@ProcessOptionsWithKV{%
448     \let\pc@temp\@empty
449     \@for\CurrentOption:=\@classoptionslist\do{%
450         \@ifundefined{KV@pc@\CurrentOption}{\relax}{%
451             \edef\pc@temp{\pc@temp,\CurrentOption,}%
452             \@expandtwoargs\@removeelement\CurrentOption
453                 \@unusedoptionlist\@unusedoptionlist
454         }%
455     }%
456     \edef\pc@temp{%
457         \noexpand\pdfcryptsetup{%
458             \pc@temp\@optionlist{\@currname.\@current}%
459         }%
460     }%
461     \pc@temp
462 }
463 \pc@ProcessOptionsWithKV
464 \AtEndOfPackage{\let\@unprocessedoptions\relax}
465 \AtBeginDocument{\pc@set}
466
467 \pc@endinput
468 \</package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN²:

[CTAN:macros/latex/contrib/oberdiek/pdfcrypt.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcrypt.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 T_EX Files” ([CTAN:pkg/tds](#)). Directories with `texmf` in their name are usually organized this way.

3.2 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
```

3.3 Package installation

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

```
tex pdfcrypt.dtx
```

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

```
pdfcrypt.sty → tex/generic/oberdiek/pdfcrypt.sty
pdfcrypt.pdf → doc/latex/oberdiek/pdfcrypt.pdf
pdfcrypt.dtx → source/latex/oberdiek/pdfcrypt.dtx
```

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`.

3.4 Refresh file name databases

If your T_EX distribution (T_EX Live, MiK_T_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run `texhash` or `mktexlsr`.

3.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), then inform the autodetect routine about your intention:

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

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

²[CTAN:pkg/pdfcrypt](#)

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 pdfL^AT_EX:

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

4 History

[2001/04/02 v0.1]

- First public version, published in the pdftex mailing list for testing with pdfcrypt-20010331

[2001/07/19 v0.2]

- Default: all allowed.
- Support for V_TE_X added.

[2001/07/19 v0.3]

- Bug fix: V_TE_X letter for edit is M (modify).

[2001/07/19 v0.4]

- Bug fix: `\VTeXversion` is correct after regenerating the format file.

[2001/08/05 v0.5]

- Syntax change in pdfT_EX 1.00a.

[2001/08/09 v0.6]

- Support of special characters:
input: `\{, \}, \` for `{, }, \`
output: " in V_TE_X
- Option debug added.

[2001/10/28 v0.7]

- Plain compatibility.
- `\nopdfcrypt` added.
- Typos corrected.

[2006/02/20 v0.8]

- Obsolete remarks for pdfT_EX.
- DTX framework.
- LPPL 1.3

[2007/04/11 v0.9]

- Line ends sanitized.

[2007/04/26 v1.0]

- Use of package infwarerr.

[2016/05/16 v1.1]

- Documentation updates.

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