

The pdfcrypt package

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Abstract

This package supports the setting of pdf encryption options for V \TeX and some older versions of pdf \TeX .

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

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1 Documentation

This package allows the setting of pdf encryption options for

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

pdfTeX-1.00a,
pdfTeX-0.14h-pdfcrypt-20010310,
pdfcrypt-20010331

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

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

or

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

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 pdfTeX (eg. version 1.00a-pretest-20010804):
pdfTeX 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/teck/web2c/pdftexdir
  src/teck/web2c/pdftexdir> ln -fs pdfcrypt-full.c pdfcrypt.c
Compile:
  src/teck/web2c/pdftexdir> cd ../../..
  src> ./configure
  src> cd teck/web2c
  src/teck/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 (H0)]%
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     \endgroup
107     \pc@endinput
108   }{%
109     \gdef\pc@driver{pdftex}%
110   }%
111 \fi
112 }%
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 \fi
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 }
```



```

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}{-}{-}%
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}{-}{%
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](https://ctan.org/ctan/packages/macros/latex/contrib/oberdiek/pdfcrypt.dtx) The source file.

[CTAN:macros/latex/contrib/oberdiek/pdfcrypt.pdf](https://ctan.org/ctan/packages/macros/latex/contrib/oberdiek/pdfcrypt.pdf) Documentation.

²[CTAN:pkg/pdfcrypt](https://ctan.org/ctan/packages/pkg/pdfcrypt)

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 `mktextlsr`.

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.

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.

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; plain numbers refer to the code lines where the entry is used.

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\"	215, 216	\@nameuse 149, 256
\#	323, 325	\@nil 298, 300, 306, 333, 339
\%	325	\@onlypreamble 431
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