# The ifvtex package

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#### Abstract

This package looks for VTEX, implements and sets the switches  $\iff vtex, \iff vtex(mode)$ ,  $\iff vtexgex$ . It works with plain or LATEX formats.

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

## 1 Usage

The package ifvtex can be used with both plain TeX and LATeX:

```
plain T_EX: \input ifvtex.sty 
 IAT_EX 2_E: \usepackage{ifvtex}
```

The package implements switches for VT<sub>E</sub>X and its different modes and interprets \VTeXversion, \OpMode, and \gexmode.

#### \ifvtex

The package provides the switch \ifvtex:

```
\ifvtex
... do things, if VTEX is running ...
\else
... other TEX compiler ...
\fi
```

Users of the package ifthen can use the switch as boolean:

\boolean{ifvtex}

```
\ifvtexdvi
\ifvtexpdf
\ifvtexps
\ifvtexhtml
```

VT<sub>F</sub>X knows different output modes that can be asked by these switches.

#### \ifvtexgex

This switch shows, whether GeX is available.

# 2 Implemenation

## 2.1 Reload check and package identification

```
1 (*package)
```

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

```
3 \catcode13=5 % ^^M
4 \endlinechar=13 %
```

5 \catcode35=6 % #

6 catcode39=12 % '

7 \catcode44=12 %,

 $8 \cdot \text{catcode45=12 \%}$  -

9 \catcode46=12 % .

10 \catcode58=12 %:

11 \catcode64=11 % @

12 \catcode123=1 % {

13 \catcode125=2 % }

 $14 \quad \verb|\expandafter\excsname| ver@ifvtex.sty\\| endcsname| endcsn$ 

15 \ifx\x\relax % plain-TeX, first loading

16 \else

17  $\left\{ \right\}$ 

```
\ifx\x\empty % LaTeX, first loading,
18
       % variable is initialized, but \ProvidesPackage not yet seen
19
20
     \else
       \expandafter\ifx\csname PackageInfo\endcsname\relax
21
22
        \def\x#1#2{\%}
23
         \immediate\write-1{Package #1 Info: #2.}%
24
        }%
       \else
25
        26
       \fi
27
       \x{ifvtex}{The package is already loaded}%
28
       \aftergroup\endinput
29
30
     \fi
    \fi
32 \endgroup%
Package identification:
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34
    \color=5 \% ^M
35
    \endlinechar=13 %
36
    \catcode35=6 % #
37
    \catcode39=12 % '
    \catcode40=12 % (
38
    \catcode41=12 % )
39
40 \catcode44=12 %,
41 \catcode45=12 % -
42 \catcode46=12 % .
43 \catcode47=12 % /
44 \catcode58=12 %:
45 \catcode64=11 % @
46 \catcode91=12 % [
47 \catcode93=12 % ]
48 \catcode123=1 % {
49 \catcode125=2 % }
    \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
57
       #2[{#3}]%
58
       \ifx#1\@undefined
        \xdef#1{#3}%
59
       ۱fi
60
       \ifx#1\relax
61
        \xdef#1{#3}%
62
       \fi
63
     }%
64
65 \fi
66 \expandafter\x\csname ver@ifvtex.sty\endcsname
67 \ProvidesPackage{ifvtex}%
68 [2016/05/16 v1.6 Detect VTeX and its facilities (HO)]%
2.2
     Catcodes
69 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \catcode13=5 % ^^M
71 \endlinechar=13 %
72 \catcode123=1 % {
73 \catcode125=2 % }
74 \catcode64=11 % @
75 \def\x{\endgroup
     \expandafter\edef\csname ifvtex@AtEnd\endcsname{%
```

```
\endlinechar=\the\endlinechar\relax
    77
    78
                                     \catcode13=\the\catcode13\relax
                                     \catcode32=\the\catcode32\relax
    79
                                     \catcode35=\the\catcode35\relax
    80
                                     \colored{catcode61=\the\catcode61\relax}
    82
                                     \catcode64=\the\catcode64\relax
    83
                                    \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
                                    \verb|\catcode| 125 = \verb|\the| catcode| 125 \verb|\relax|
    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\ifvtex@AtEnd{%
    95
    96
                            \ifvtex@AtEnd
                           \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\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
   98
                    ጉ%
   99
                    \color= 1=\#2\relax
100 }
101 \TMP@EnsureCode{10}{12}% ^~J
102 \TMP@EnsureCode{39}{12}%'
103 \TMP@EnsureCode{44}{12}\%,
104 \TMP@EnsureCode{45}{12}% -
105 \TMP@EnsureCode\{46\}\{12\}\%.
106 \TMP@EnsureCode{47}{12}% /
107 \TMP@EnsureCode{58}{12}%:
108 \TMP@EnsureCode{60}{12}% <
109 \TMP@EnsureCode{62}{12}% >
110 \TMP@EnsureCode{94}{7}% ^
111 \TMP@EnsureCode{96}{12}% '
112 \edef\ifvtex@AtEnd{\ifvtex@AtEnd\noexpand\endinput}
```

#### 2.3 Check for previously defined \ifvtex

```
113 \begingroup
114
    \expandafter\ifx\csname ifvtex\endcsname\relax
115
     \else
      \edef\i/{\expandafter\string\csname ifvtex\endcsname}%
116
      \expandafter\ifx\csname PackageError\endcsname\relax
117
        \def\x#1#2{\%}
118
         \left(\frac{x}{\#2}\right)
119
         \ensuremath{\texttt{expandafter}\errhelp}\expandafter{\z}\%
120
         \errmessage{Package ifvtex Error: #1}%
121
122
        123
124
        \newlinechar=10 %
125
      \else
        \def\x#1#2{\%}
126
         \PackageError{ifvtex}{#1}{#2}%
127
       7%
128
129
        \def\y{\MessageBreak}%
130
131
      \x{Name clash, \i/ is already defined}{%
        Incompatible versions of \i/ can cause problems,\v
132
        therefore package loading is aborted.%
133
134
      }%
135
      \endgroup
136
      \expandafter\ifvtex@AtEnd
```

```
137 \fi%
```

138 \endgroup

## 2.4 Provide \newif

- 139 \begingroup\expandafter\expandafter\expandafter\endgroup
- 140 \expandafter\ifx\csname newif\endcsname\relax

#### \ifvtex@newif

- 141 \def\ifvtex@newif#1{%
- 142 \begingroup
- 143 \escapechar=-1 %
- 144 \expandafter\endgroup
- 145 \expandafter\ifvtex@@newif\string#1\@nil
- 146 }%

#### \ifvtex@@newif

- 147 \def\ifvtex@@newif#1#2#3\@nil{%
- 148 \expandafter\edef\csname#3true\endcsname{%
- 149 \let
- 150 \expandafter\noexpand\csname if#3\endcsname
- 151 \expandafter\noexpand\csname iftrue\endcsname
- 152 }%
- 153 \expandafter\edef\csname#3false\endcsname{%
- 154 \le
- 155 \expandafter\noexpand\csname if#3\endcsname
- 156 \expandafter\noexpand\csname iffalse\endcsname
- 157 }%
- 158 \csname#3false\endcsname
- 159 }%
- 160 \else

#### \ifvtex@newif

- $161 \verb| \expandafter\expandafter\ifvtex@newif\csname newif\endcsname | \end{|}$
- 162 **\fi**

#### 2.5 \ifvtex

\ifvtex Create and set the switch. \newif initializes the switch with \iffalse.

- 163 \ifvtex@newif\ifvtex
- 164 \begingroup\expandafter\expandafter\expandafter\endgroup
- 165 \expandafter\ifx\csname VTeXversion\endcsname\relax
- 166 \else
- 167 \begingroup\expandafter\expandafter\expandafter\endgroup
- $168 \quad \verb|\expandafter\ifx\csname\ OpMode\endcsname\relax|$
- 169 \else
- 170 \vtextrue
- 171 \fi
- 172 \fi

#### 2.6 Mode and GeX switches

- 173 \ifvtex@newif\ifvtexdvi
- 174 \ifvtex@newif\ifvtexpdf
- 175 \ifvtex@newif\ifvtexps
- 176 \ifvtex@newif\ifvtexhtml
- 177 \ifvtex@newif\ifvtexgex
- 178 \ifvtex
- $179 \quad \verb|\ifcase|OpMode| relax|$
- 180 \vtexdvitrue
- 181 \or % 1

```
\vtexpdftrue
182
                                   \or % 2
183
184
                                             \vtexpstrue
                                    \or % 3
185
186
                                             \vtexpstrue
 187
                                    188
                                             \vtexhtmltrue
                                   \fi
189
                                    \verb|\begingroup| expandafter | expandafter |
190
                                    \verb|\expandafter\ifx\csname gexmode\endcsname\relax|
191
192
                                                \ifnum\gexmode>0 %
193
                                                          \vtexgextrue
194
195
196
                                 \fi
197 \fi
```

# 2.7 Protocol entry

#### Log comment:

```
198 \begingroup
    \expandafter\ifx\csname PackageInfo\endcsname\relax
      \def\x#1#2{\%}
        \immediate\write-1{Package #1 Info: #2.}%
201
      }%
202
203
    \else
      \let\x\PackageInfo
204
      \expandafter\let\csname on@line\endcsname\empty
205
206
    \x{ifvtex}{\%}
207
      VTeX %
208
209
      \ifvtex
210
       in \ifvtexdvi DVI\fi
211
          \ifvtexpdf PDF\fi
212
          \ifvtexps PS\fi
          \ifvtexhtml HTML\fi
213
        \space mode %
214
       with
\ifvtexgex\else out\fi\space GeX \%
215
      \else
216
       not %
217
      \fi
218
      detected%
219
220 }%
221 \endgroup
222 \ifvtex@AtEnd%
223 (/package)
```

#### 3 Test

### 3.1 Catcode checks for loading

```
224 (*test1)

225 \catcode'\{=1 %

226 \catcode'\}=2 %

227 \catcode'\#=6 %

228 \catcode'\@=11 %

229 \expandafter\ifx\csname count@\endcsname\relax

230 \countdef\count@=255 %

231 \fi

232 \expandafter\ifx\csname @gobble\endcsname\relax

233 \long\def\@gobble#1{}%
```

```
234 \fi
235 \expandafter\ifx\csname @firstofone\endcsname\relax
236 \long\def\@firstofone#1{#1}%
238 \expandafter\ifx\csname loop\endcsname\relax
   \expandafter\@firstofone
240 \else
241 \expandafter\@gobble
242 \fi
243 {%
    244
      \def\body{#1}%
245
      \iterate
246
247 }%
    \def\iterate{%
248
^{249}
      \body
       \let\next\iterate
250
251
      \else
       \let\next\relax
252
253
      \fi
254
      \next
    }%
255
    \left| \right| 
256
257 }%
258 \def\RestoreCatcodes{}
259 \count@=0 %
260 \loop
    \edef\RestoreCatcodes{%
261
262
      \RestoreCatcodes
      \catcode\the\count@=\the\catcode\count@\relax
263
264 }%
265 \ifnum\count@<255 \%
266 \advance\count@ 1 %
267 \repeat
269 \def\RangeCatcodeInvalid#1#2{%
    \count@=#1\relax
271 \loop
272
      \catcode\count@=15 %
273 \ifnum\count@<#2\relax
      \advance\count@ 1 %
274
275
    \repeat
276 }
277 \def\RangeCatcodeCheck#1#2#3{\%
    \verb|\count@=#1| relax|
278
279
    \loop
280
      \ifnum#3=\catcode\count@
281
      \else
282
       \errmessage{%
283
         Character \the\count@\space
         with wrong catcode \the\catcode\count@\space
284
        instead of \number#3%
285
       }%
286
287
    \index(0) = \frac{2}{r}
288
289
      \advance\count@ 1 %
290
    \repeat
291 }
292 \ensuremath{\mbox{def\space}} \
293 \expandafter\ifx\csname LoadCommand\endcsname\relax
294 \def\LoadCommand{\input ifvtex.sty\relax}\%
295 \fi
```

```
296 \def\Test{%
    \RangeCatcodeInvalid{0}{47}%
297
    \RangeCatcodeInvalid{58}{64}%
298
    \RangeCatcodeInvalid{91}{96}%
299
    \RangeCatcodeInvalid{123}{255}%
    \catcode'\@=12 %
301
    \color=0 \%
302
303
    \catcode'\%=14 %
304
    \LoadCommand
    \RangeCatcodeCheck{0}{36}{15}%
305
    \RangeCatcodeCheck{37}{37}{14}%
306
    \RangeCatcodeCheck{38}{47}{15}%
307
    \RangeCatcodeCheck{48}{57}{12}%
308
    \RangeCatcodeCheck{58}{63}{15}%
309
    \RangeCatcodeCheck{64}{64}{12}%
    \RangeCatcodeCheck{65}{90}{11}%
312
    \RangeCatcodeCheck{91}{91}{15}%
313
    \RangeCatcodeCheck{92}{92}{0}%
    \RangeCatcodeCheck{93}{96}{15}%
314
315
    \RangeCatcodeCheck{97}{122}{11}%
316
    \RangeCatcodeCheck{123}{255}{15}%
    \RestoreCatcodes
317
318 }
319 \Test
320 \csname @@end\endcsname
321 \end
322 (/test1)
```

#### 4 Installation

#### 4.1 Download

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

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

CTAN:macros/latex/contrib/oberdiek/ifvtex.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/

<sup>1</sup> http://ctan.org/pkg/ifvtex

#### 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<sub>F</sub>X:

```
tex ifvtex.dtx
```

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

```
\begin{tabular}{lll} ifvtex.sty & $\to$ tex/generic/oberdiek/ifvtex.sty \\ ifvtex.pdf & $\to$ doc/latex/oberdiek/ifvtex.pdf \\ test/ifvtex-test1.tex & $\to$ doc/latex/oberdiek/test/ifvtex-test1.tex \\ ifvtex.dtx & $\to$ source/latex/oberdiek/ifvtex.dtx \\ \end{tabular}
```

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{ifvtex.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 ifvtex.dtx
makeindex -s gind.ist ifvtex.idx
pdflatex ifvtex.dtx
makeindex -s gind.ist ifvtex.idx
pdflatex ifvtex.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 ifvtex.xml.

```
323 (*catalogue)
324 <?xml version='1.0' encoding='us-ascii'?>
325 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
```

```
326 <entry datestamp='$Date$' modifier='$Author$' id='ifvtex'>
327 <name>ifvtex</name>
328 <caption>Detects use of VTeX and its facilities.</caption>
    <authorref id='auth:oberdiek'/>
    <copyright owner='Heiko Oberdiek' year='2001,2006-2008,2010'/>
    clicense type='lppl1.3'/>
332
    <version number='1.6'/>
333
    <description>
      The package looks for VTeX and sets the switch <tt>\ifvtex</tt>.
334
      In the presence of VTeX, the mode switches <tt>\ifvtexdvi</tt>,
335
      <tt>\ifvtexpdf</tt> and <tt>\ifvtexps</tt> are set;
336
      <tt>\ifvtexgex</tt> tells you whether GeX is operating.
337
338
      The package is part of the xref refid='oberdiek'>oberdiek bundle.
339
340 </description>
341 <documentation details='Package documentation'
342
       href='ctan:/macros/latex/contrib/oberdiek/ifvtex.pdf'/>
343 <ctan file='true' path='/macros/latex/contrib/oberdiek/ifvtex.dtx'/>
344 <miktex location='oberdiek'/>
345 <texlive location='oberdiek'/>
346 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
347 </entry>
348 (/catalogue)
```

# 6 History

# [2001/09/26 v1.0]

• First public version.

# [2006/02/20 v1.1]

- DTX framework.
- Undefined tests changed.

### [2007/01/10 v1.2]

• Fix of the \ProvidesPackage description.

#### [2007/09/09 v1.3]

• Catcode section added.

### [2008/11/04 v1.4]

• Bug fix: Mispelled \OpMode (found by Hideo Umeki).

# [2010/03/01 v1.5]

• Compatibility with iniTeX.

## [2016/05/16 v1.6]

• Documentation updates.

# 7 Index

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