The ifetex Package

Martin Scharrer martin@scharrer-online.de

CTAN: http://www.ctan.org/pkg/ifetex

Version v1.2a - 2018/03/31

Abstract

This small package provides the if-switch **\ifetex** which indicated whether ϵ -T_EX is available or not.

Contents	2	Implementation	3
		2.1 ifetex.sty	3
1 Usage	2	2.2 ifetex.tex	4

Links

This package is developed using an Mercurial (HG) revision control repository on Bitbucket.org. It is published on the Comprehensive T_EX Archive Network (CTAN) and available with the main T_EX distributions T_EXLive and MikT_EX.

Bug reports and feature requests should be submitted using the issue tracker linked below.

The following table lists the location of the package, its downloadable files, both on CTAN and on the package website.

CTAN	https://www.ctan.org/pkg/ifetex	
PDF Manual	http://mirrors.ctan.org/macros/latex/contrib/ifetex/ifetex.pdf	
TDS ZIP	http://mirrors.ctan.org/install/macros/latex/contrib/ifetex.tds.zip	
Website	https://bitbucket.org/martin_scharrer/ifetex/	
HG Repository	https://bitbucket.org/martin_scharrer/ifetex/	
Issue Tracker	https://bitbucket.org/martin_scharrer/ifetex/issues	
Downloads	https://bitbucket.org/martin_scharrer/ifetex/downloads/	
PDF Manual	https://bitbucket.org/martin_scharrer/ifetex/downloads/ifetex.pdf	
TDS ZIP	https://bitbucket.org/martin_scharrer/ifetex/downloads/ifetex.tds.zip	
Source ZIP	https://bitbucket.org/martin_scharrer/ifetex/downloads/ifetex.tds.zip	

1 Usage

The package can be loaded as $\[MT_EX]$ package using $\[secondsymbol{usepackage}\]$ or in plainT_EX using $\[secondsymbol{usepackage}\]$ if the $\[secondsymbol{usepackage}\]$ if the $\[secondsymbol{usepackage}\]$ is already defined.

The package currently test if eTeXversion is defined as a primitive and assumes ϵ -TFX if so.

Note that almost all modern $\[Mathbb{E}]_{EX}$ distributions use ϵ -T_EX. The two major distributions T_EX Live and MikT_EX support it and use it by default (except for the classic tex). The $\[Mathbb{E}]_{EX}$ which comes with *Scientific Work Place* by MacKichan seems to not support ϵ -T_EX yet. Package authors can use this package to test for missing ϵ -T_EX and provide fall-back code.

\ifetex

Equal to \iftrue if ϵ -T_FX support is present and \iftalse otherwise.

\NeedsETeX [<version>]

The $\&T_EX$ package provides this macro which can be used in packages or classes to produce an error if ϵ -T_EX is not available, similar to \NeedsTeXFormat. In addition an optional version number can be given in the format x.y, where x is the main version and y the revision. This number is checked against \eTeXversion and \eTeXrevision and an appropriate error is raised if the available ϵ -T_EX is too old.

2 Implementation

2.1 ifetex.sty

```
1 %<!COPYRIGHT>
2 \ProvidesPackage{ifetex}[%
3 %<!DATE>
4 %<!VERSION>
5 %<*DRIVER>
6 2099/01/01 develop
7 %</DRIVER>
8 ifetex]
```

```
9 \@@input ifetex
```

\NeedsETeX

#1: optional version number (x.y)Produces error if e-TeX is not available or if its version is too old.

```
\newcommand*\NeedsETeX[1][]{%
10
    \ifetex
11
      \ifx\@nnil#1\@nnil\else
      \ifdim\the\eTeXversion\eTeXrevision\p@<#1\p@\/
13
          relax
        \ensuremath{\mathbb{C}}\
14
            version #1%
        \MessageBreak but only version \the\eTeXversion/
15
            \eTeXrevision is available}{%
           The current input file will not be processed
16
           further, \ MessageBreak
17
           because it was written for a newer version of \!\!\!\!/
18
               e-TeX.
          \MessageBreak\@ehd}%
19
        \endinput
20
      \fi\fi
21
    \else
22
      \ensuremath{\sc 0}\
23
        The current input file will not be processed
24
        further, \MessageBreak
25
        because it was written for e-TeX which is not \nearrow
26
            available.
         \MessageBreak\@ehd}%
27
      \endinput
28
    \fi
29
30 }
```

2.2 ifetex.tex

```
31 % <! COPYRIGHT >
```

Abort if \ifetex is already defined.

```
32 \expandafter\ifx\csname ifetex\endcsname\relax\else
33 \expandafter\endinput
34 \fi
```

ifetex

Checks if **\eTeXversion** is a primitive.

```
35 \begingroup
def \ edef \ eTeXversion \
37 \edef\tempb{\string\eTeXversion}%
38 \ifx\tempa\tempb
      \endgroup
39
      \verb|expandafter|let|csname ifetex|expandafter|/
40
          endcsname\csname iftrue\endcsname
  ∖else
41
      \endgroup
42
      \verb|expandafter|let|csname ifetex|expandafter|/
43
          endcsname \csname iffalse \endcsname
44 \fi
```