The \texttt{ifxetex} package

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\section{User documentation}

This package provides a way to check if a document is being processed with \TeXeX. It may be loaded with

\begin{verbatim}
\usepackage{ifxetex} for \LaTeX, or
\input ifxetex.sty for Plain \TeX.
\end{verbatim}

This defines the conditional \texttt{ifxetex} that is used in the standard way:

\begin{verbatim}
\ifxetex
  ⟨material for \TeXeX⟩
\else
  ⟨material not for \TeXeX⟩
\fi
\end{verbatim}

Users of \LaTeX’s \texttt{ifthen} package can also use it as \texttt{\boolean{xetex}}:

\begin{verbatim}
\ifthenelse{ \boolean{xetex} }{%
  ⟨material for \TeXeX⟩
}{%
  ⟨material not for \TeXeX⟩
}\end{verbatim}

Finally, this package also defines the \texttt{\RequireXeTeX} command, which tests for \TeXeX use and throws an error if a different engine is being used. This is used for packages like \texttt{fontspec} that take advantage of \TeXeX’s new features and cannot be used otherwise.

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2 Implementation

Ensure loading a single time only.

\csname \ifxetexloaded \endcsname
\let \ifxetexloaded \endinput

Declare ourselves to \LaTeX.

\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx \csname \ProvidesPackage \endcsname \relax \else
\ProvidesPackage{ifxetex}
\[2010/09/12 \v0.6 \Provides \ifxetex \conditional\]
\fi

For \Xe\TeX-exclusive packages.

\Require\Xe\TeX
\def \Require\Xe\TeX{\%
\if\xetex\else
\begingroup
\errorcontextlines=-1 \relax
\newlinechar=10 \relax
\errmessage{\^^J
********* \^^J
* \Xe\TeX\_is\_required\_to\_compile\_this\_document. \^^J
* \_Sorry! \^^J
*********} %
\endgroup
\fi}

Abort if \if\xetex is already defined (assume that it has already been set correctly)\(^1\)

\expandafter\ifx \csname \if\xetex \endcsname \relax \else
\expandafter\endinput
\fi

Create and set \if\xetex accordingly.

\if\xetex
\newif\xetex
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx \csname \Xe\TeX\revision \endcsname \relax
\xetexfalse
\fi

\(^1\) Thanks to Dan Luecking for suggesting this.
\else
\xetextrue
\fi

\textit{(eof)}