Abstract

This \LaTeX{} package provides the command \verb|\tablefootnote| to be used in a \verb|table| or \verb|sidewaystable| environment, where \verb|\footnote| will not work and when using \verb|\footnotemark| and \verb|\footnotetext| and adjusting the counters (including \verb|Hfootnote|) manually is either too much work or would not even work (\verb|sidewaystable|).

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Save per page about 200 ml water, 2 g CO$_2$ and 2 g wood:
Therefore please print only if this is really necessary.
1 Introduction

This \LaTeX{} package provides the command \texttt{\tablefootnote{...}} to be used in a \texttt{table} or \texttt{sidewaystable} environment. In those environments \texttt{\footnote{...}} would not work and would need to be replaced by \texttt{\footnotemark} in the \texttt{(sideways)table} and \texttt{\footnotetext{...}} after the \texttt{(sideways)table} environment ended. Additionally the counters for \texttt{footnote} and (when the \texttt{hyperref} package is used) \texttt{Hfootnote} would need to be adjusted manually. Then still the hyperlinks in a \texttt{(sideways)table} would not work. When the \texttt{footnotebackref} package is used, \texttt{\footnotemark} and \texttt{\footnotetext{...}} would need to be redefined. Just using \texttt{\tablefootnote{...}} (with optional argument for custom foot note marks) in the \texttt{(sideways)table} does all this automatically. (Compatibility with the \texttt{footnotebackref} package was achieved without redefining \texttt{\footnotemark} or \texttt{\footnotetext}.) Redefining \texttt{\footnote} was not done as to not create conflicts with other packages.

2 Usage

Just load the package placing

\begin{verbatim}
\usepackage{tablefootnote}
\end{verbatim}

in the preamble of your \LaTeX{} source file and use
\texttt{\tablefootnote{...}} instead of \texttt{\footnote{...}} and
\texttt{\tablefootnotemark{...}} instead of \texttt{\footnotemark{...}} in (sideways)tables.

When the \texttt{footnotebackref} package is used, it must be loaded before the \texttt{tablefootnote} package and the \texttt{hyperref} package with option \texttt{hyperfootnotes=true} must be loaded, too. (Backreference-links without links do not make sense.) When the \texttt{rotating} package (for \texttt{sidewaystable}s) is used, it must be loaded before the \texttt{tablefootnote} package and it must be a recent version (v2.16a, 2009/03/28, or newer).

If \texttt{\tablefootnote{...}} is used in a tabular environment, which is inside of a (sideways)table environment, everything is fine, but when the tabular environment is not inside of a (sideways)table, the \texttt{tablefootnote} will not work.

Pages with tables with footnotes, which are rotated with the \texttt{lscape} or with the \texttt{pdflscape} package (\texttt{\begin{landscape}, \texttt{table}, \texttt{\end{landscape}}), are possible. But when the \texttt{footmisc}-package is used, \texttt{(pdf)lscape} should be loaded before \texttt{footmisc}.

When the \texttt{footmisc}-package is used with option \texttt{para}, this is regarded with the exception of a \texttt{sidewaystable}. There the footnotes are printed one below the other. (Well, this is better than no footnote in a \texttt{sidewaystable} at all, isn’t it?)

When the (sideways)table floats, the footnotes are set and (when \texttt{hyperref} is used) hyperlinked, but they are not automatically adapted when the table floats over/under another footnote. Thus either do not use a footnote between original and float position of the (sideways)table, or place the (sideways)table in “here” position. \texttt{\clear{double}{page}}, \texttt{\h{(!)}}, \texttt{H} from the \texttt{float} package (\url{http://www.ctan.org/pkg/float}), or \texttt{\FloatBarrier} from the \texttt{picins} package (\url{http://www.ctan.org/pkg/picins}) might help, too. (Or after finishing the document, move the (sideways)table in the source code near the position where it floats to or use the optional footnote marks.)
3 Alternatives

- The \texttt{longtable} package provides the \texttt{longtable} environment as replacement for the combined \texttt{table} and \texttt{tabular} environments. Footnotes are real footnotes (not just tablenotes), are continuously numbered and hyperlinked (when using the \texttt{hyperref} package), and the hyperlinks really work. As drawback the appearance of the caption changes slightly (e.g. distance to the table, width of the caption), which can probably be changed back manually. Furthermore, longtables are meant to break over more than one page. If that is not wished, it must be prevented by \texttt{\nopagebreak}-commands and by ending the longtable lines with \texttt{\*} instead of \texttt{\}. longtables do not float. (Therefore using the \texttt{tablefootnote} package and \texttt{\FloatBarrier} from the \texttt{picins} package before and after the table environment is similar - but \texttt{tablefootnote} does not change the table-caption!) \texttt{sidewaystable} does not work with it.
http://www.ctan.org/pkg/longtable

- The \texttt{supertabular} package provides the \texttt{mpsupertabular} environment as replacement for the combined \texttt{table} and \texttt{tabular} environments. Footnotes are just tablenotes (with working hyperlinks when using the \texttt{hyperref} package), i.e. numbered a, b, c and placed below the table and not at the end of the page. Therefore there is no float problem (because the tablenotes numbering is not included in the continuous numbering of the footnotes). Placing the \texttt{supertabular} inside of a \texttt{sidewaystable} breaks the hyperlinks to the tablenotes.
http://www.ctan.org/pkg/supertabular

- The \texttt{ctable} package has its very own notation for defining tables. It can create tablenotes and sideways-tables. The tablenotes are not automatically hyperlinked. The \texttt{ctables} float. Because the tablenotes numbering is not included in the continuous numbering of the footnotes there is no float problem.
http://www.ctan.org/pkg/ctable

- The \texttt{footnote} package provides \texttt{\makesavenoteenv{table}}. After loading the package and using that command in the preamble, in tables \texttt{\footnote{...}} can be used. Using \texttt{\makesavenoteenv{tabular}} and \texttt{\makesavenoteenv{sidewaystable}} is possible, but it neither solves the float problem, nor do the created hyperlinks work (i.e. they aim at wrong locations). The \texttt{mdwtab} from the same bundle is incompatible with other table-related packages (e.g. \texttt{supertabular}, \texttt{array}) and not 100\% compatible with the \texttt{tabular} environment.
http://www.ctan.org/pkg/footnote
http://www.ctan.org/pkg/mdwtab

- The \texttt{tabularx} package does produce footnotes for sideways tables, but uses a, b, c instead of 1, 2, 3. The hyperlinks to the footnotes do not work. Because the footnotes numbering is not included in the continuous numbering of the other footnotes there is no float problem.
http://www.ctan.org/pkg/tabularx

- Placing a \texttt{tabular} inside a \texttt{minipage} inside a table produces tablenotes. Therefore there is no float problem (because the footnotes are not continuously numbered). The hyperlinks to the table notes indeed work.
- The \texttt{threeparttable} package creates tablenotes again. Therefore there is no float
  problem (because the tablenotes are not continuously numbered with the
  footnotes). There are no hyperlinks to the table notes (at least not auto-
  matically). Using \texttt{sidewaystable} (with table notes) works.
  \url{http://www.ctan.org/pkg/threeparttable}

- The \texttt{threeparttablex} package creates tablenotes again. Therefore there is no float
  problem (because the tablenotes are not continuously numbered with the
  footnotes). With option \texttt{referable} the tablenotes are hyperlinked. Use of
  a \texttt{sidewaystable} (with table notes) did not work for me. When using the
  \texttt{referable} option according to the example in the \texttt{threeparttablex} manual
  the \texttt{longtable} package is used, therefore that package could be used directly
  without \texttt{threeparttablex} (see above).
  \url{http://www.ctan.org/pkg/threeparttablex}

- One can manually use \texttt{\footnotemark} in the table and \texttt{\footnotetext{...}}
  after the table environment ended and manually change the \texttt{Hfootnote}
  and (when the \texttt{hyperref} package is used) \texttt{Hfootnote} counters and needs to insert

  \begin{verbatim}
  \makeatletter
  \global\let\Hy@saved@currentHref\@currentHref
  \hyper@makecurrent{Hfootnote}\
  \global\let\@currentHref\Hy@saved@currentHref
  \makeatother
  \end{verbatim}

  before each \texttt{\footnotetext{...}}, but with more than very few foot-
  notes this can become much work (and is prone to produce errors). And
  this does not even work with sideways tables. (And it does not work
  with the \texttt{footnotebackref} package without redefining \texttt{\footnotemark} and
  \texttt{\footnotetext{...}}.)

  (You programmed or found another alternative, which is available at \texttt{CTAN}?:
  OK, send an e-mail to me with the name, location at \texttt{CTAN}:, and a short notice,
  and I will probably include it in the list above.)


4 Example

\documentclass[british]{article}[2007/10/19]% v1.4h
\usepackage{float}[2001/11/08]% v1.3d
\usepackage{placeins}[2005/04/18] ; for \FloatBarrier
\usepackage{rotating}[2009/03/28] v2.16a; for sidewaystable-environment
\usepackage[%
  hyperfootnotes=true,%
  extension=pdf,%
  plainpages=false,%
  pdfpagelabels=true,%
  hyperindex=false,%
  pdflang={en},%
  pdftitle={tablefootnote package example},%
  pdfauthor={H.-Martin Muench},%
  pdfsubject={Example for the tablefootnote package},%
  pdfkeywords={LaTeX, tablefootnote, footnote, table, H.-Martin Muench},%
  % pdfview=FitH and FitBH do not work: hyperlinks in sidewaystables
  % do no lead to the footnotes, due to a bug in pdfTeX,
  % computing wrong anchor coordinates (Heiko Oberdiek, 29. October 2011)
  % pdfview=Fit, FitV, FitR, FitB, FitBV work
  % print is OK for all those options
  pdfstartview=FitH,%
%]
\usepackage{footnotebackref}[2012/07/01]% v1.0
\usepackage{tablefootnote}[2014/01/26]% v1.1c
\gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
\listfiles
\begin{document}
\pagenumbering{arabic}
\section*{Example for tablefootnote}

This example demonstrates the use of package\texttt{tablefootnote}, v1.1c as of 2014/01/26 (HMM).\texttt{tablefootnote}\vspace{1em}
There were no options used. (The package provides no options.)\texttt{tablefootnote}\vspace{1em}

\textbf{The \texttt{tablefootnote-example.tex} needs to be compiled at least twice to get the references right!}\texttt{tablefootnote}\vspace{1em}

If the etoolbox-package is found, it is automatically used.\texttt{tablefootnote}\vspace{1em}
For more details please see the documentation!\texttt{tablefootnote}\vspace{1em}

Save per page about $200\unit{ml}$ water, $2\unit{g}$ CO$_2$ and $2\unit{g}$ wood:\texttt{tablefootnote}\vspace{1em}
Therefore please print only if this is really necessary.\texttt{tablefootnote}\vspace{1em}

Here is some text.\texttt{tablefootnote}\vspace{1em}

Tables \texttt{tab.symbol}, \texttt{tab.normal}, \texttt{tab.another} and \texttt{tab.floatH} show normal tables, table~\texttt{tablefootnote}\vspace{1em}

decepts
a sidewaystable. Table\ref{tab.floatH} uses the float specifier\texttt{H} from the float package.

\texttt{Hyperref} option \verb|pdfview=FitH| and \verb|FitBH| do not work due to a bug in pdf\TeX{}, computing wrong anchor coordinates (textsc{Heiko Oberdiek}, 29. October 2011).

Depending on used pdf-viewer, hyperlinks in sidewaystables lead e.g. at the end of the document, not at the footnote. \verb|pdfview=Fit|, \verb|FitV|, \verb|FitR|, \verb|FitB|, \verb|FitBV| work, print is OK for all those options.

\renewcommand{\thefootnote}{\fnsymbol{footnote}}
\verb|\renewcommand{\thefootnote}{\fnsymbol{footnote}}|
causes footnote{-}symbol{-}footnotes, which are possible (see Table\ref{tab.symbol}).

\begin{table}
\centering
\begin{tabular}{ccc}
\text{Another}\tablefootnote{A table footnote.} & %
\text{text}\tablefootnote{Another table footnote.} & %
in a \text{table}\tablefootnote{A third table footnote.}
\end{tabular}
\caption[A footnotesymbol table]{A table with footnote-symbol-footnotes.\label{tab.symbol}}
\end{table}

\renewcommand{\thefootnote}{\arabic{footnote}}
\verb|\renewcommand{\thefootnote}{\arabic{footnote}}|
switches back to normal footnote numbers again.

\begin{table}
\centering
\begin{tabular}{ccc}
\text{Some}\tablefootnote{A table footnote.} & %
\text{text}\tablefootnote{A table footnote with custom footnote number.} & %
in a \text{table}\tablefootnote{A third table footnote.}
\end{tabular}
\caption[A table]{A normal table.\label{tab.normal}}
\end{table}

\begin{table}
\centering
\begin{tabular}{ccc}
\text{Some}\tablefootnote{Another text footnote.}
\end{tabular}
\caption[A table]{A table.\label{tab.normal}}
\end{table}

\begin{table}
\centering
\begin{tabular}{ccc}
\text{Some}\tablefootnote{Another text footnote.}
\end{tabular}
\caption[A table]{A table.\label{tab.normal}}
\end{table}

\begin{table}
\centering
\begin{tabular}{ccc}
\text{Some}\tablefootnote{Another text footnote.}
\end{tabular}
\caption[A table]{A table.\label{tab.normal}}
\end{table}
More text.\footnote{And yet another text footnote.}
\begin{table}[t]
\centering
\begin{tabular}{|c|c|c|}
\hline
Another\tablefootnote{A $3^{rd}$ table footnote.} & text\tablefootnote{Another $3^{rd}$ table footnote.} & in a table\tablefootnote{$3^{rd}$ third table footnote.} \\
\hline
\end{tabular}
\caption[Another table]{Another table (third one)\label{tab.another}}
\end{table}

Please note that Table\ref{tab.another} floated to the top of the page. While the footnotes are set and (when hyperref is used) hyperlinked, they are not automatically adapted. Thus either do not use a footnote at the same page before the table, or place the table in \texttt{\clear(double)page}, \verb|h(!)|, \verb|H| from the \texttt{float} package, or \verb|\FloatBarrier| from the \texttt{picins} package might help, too. (Or move the table in the source code near the position where it floats to or use the optional footnote marks.)

Table\ref{tab.floatH} (page\pageref{tab.floatH}) uses float specifier \texttt{H} from the float package and does not float.

Some text.\footnote{This is just another text footnote.}
\pagebreak

\begin{sidewaystable}
\centering
\begin{tabular}{ccc}
Text\tablefootnote{Please rotate the view for testing the % hyperlinks.} & in a\tablefootnote{Another sidewa

end{sidewaystable}
\caption[A sideways table]{A table in the \texttt{sideways} environment\label{tab.sideways}}
\end{sidewaystable}

\FloatBarrier

\pagebreak
A last table, here with float specifier \texttt{H} from the \texttt{float} package. \footnote{\url{http://www.ctan.org/pkg/float}}
\begin{table}[H]
\centering
\begin{tabular}{ccc}
Another \tablefootnote{A $5^{th}$ table footnote.} & %
\text{\tablefootnote{Another $5^{th}$ table footnote.}} & %
in a table \tablefootnote{A $5^{th}$ third table footnote.}
\end{tabular}
\caption{A very last \label{tab.floatH}}
\end{table}

Some text. \footnote{This is just another text footnote.}

\pagebreak
End of the example for the \texttt{tablefootnote} \footnote{\url{http://www.ctan.org/pkg/tablefootnote}} package.

\end{document}
5 The implementation

We start off by checking that we are loading into \LaTeX{} 2ε and announcing the name and version of this package.

\begin{verbatim}
\NeedsTeXFormat{LaTeX2e}[2011/06/27]
\ProvidesPackage{tablefootnote}[2014/01/26 v1.1c
  Table foot notes (HMM)]

A short description of the \texttt{tablefootnote} package:

\begin{verbatim}
%% Provides the \tablefootnote{...}{...} command
%% for footnotes in (sideways)tables.
\end{verbatim}

We need the \texttt{ltxcmds} and \texttt{letltxmacro} packages by HEIKO OBERDIEK:

\begin{verbatim}
\RequirePackage{ltxcmds}[2011/11/09]% v1.22
\RequirePackage{letltxmacro}[2010/09/02]% v1.4
\RequirePackage{xifthen}[2009/04/17]% v1.3
\end{verbatim}

A last information for the user:

\begin{verbatim}
%% tablefootnote may work with earlier versions of \LaTeX{} and those
%% packages, but this was not tested. Please consider updating
%% your \LaTeX{} and packages to the most recent version
%% (if they are not already the most recent version).
\end{verbatim}

See subsection 6.1 about how to get them.

When the \texttt{rotating} package (for \texttt{sidewaystable}s) is used, it must be loaded before the \texttt{tablefootnote} package and it must be a recent version:

\begin{verbatim}
\@ifpackageloaded{rotating}{{%
  \gdef\tfn@rotating{1}
\@ifpackagelater{rotating}{2009/03/28}% v2.16a
  {% >= 2009/03/28, OK
  }{%
    \PackageWarningNoLine{tablefootnote}{%
      It is required version\MessageBreak%
      2009/03/28 v2.16a (or later) of package rotating,\MessageBreak%
      but only version\MessageBreak%
      \csname ver@rotating.sty\endcsname\MessageBreak%
      is available}%
  }%}
\gdef\tfn@rotating{0}%
\end{verbatim}

There are no options to be processed.

We need some definitions:

\begin{verbatim}
\def\tfn@footnotetablecount{0}
\def\tfn@footnotetableprint{0}
\def\tfn@footnotezero{0}
\def\tfn@fnt{0}% _s_ ide _w_ atable
\def\tfn@fmpw{\relax}% f oot m isc p ara w arn-switch
\def\tfn@fnbr{0}% f oot n ote b ack_r ef(ence package)
\end{verbatim}
We need a wrapper for the used \ifHy@hyperfootnotes, which is not defined when the hyperref package has not been loaded:

\DeclareRobustCommand{\tfn@hyperfootnotes}[2]{
  \ifHy@hyperfootnotes
    #1
  \else
    #2
  \fi
}

\tablemakefntext makes the footnotetext for a footnote in a table.

\ifpackageloaded{footnotebackref}{
  \gdef\tfn@fnbr{1}
  \ifx\FootnoteBackref@symbol\empty
    \ifFootnoteBackref@numberlinked
      \newcommand{\tablemakefntext}[1]{
        \noindent\makebox[1.634em][r]{
          \mbox{\textsuperscript{\normalfont\hyperlink{tfn:m\theHfootnote}{\@thefnmark}{\theHfootnote}}}\ #1}
    \else
      \newcommand{\tablemakefntext}[1]{
        \noindent\makebox[1.8em][r]{
          \mbox{\textsuperscript{\normalfont\@thefnmark}}}\ #1}
    \fi
  \else
    \newcommand{\tablemakefntext}[1]{
      \noindent\makebox[1.8em][r]{
        \mbox{\textsuperscript{\normalfont\@thefnmark}}}\ #1
    }
  \fi
}
\swtablemakefntext
\newcommand{\swtablemakefntext}{\noindent #1}

\tfn@footnotemarks \tfn@footnotemarks uses the \footnotemark command to place a foot note mark and decreases the \tfn@footnotetablecount (i.e. increases the negative value) of the number of footnote(marks) in the table. If the footnotebackref package is used, it is also necessary to create an according \hypertarget for the back reference.
\newcommand{\tfn@footnotemarks}{\atext{\ifthenelse{\isempty{#1}}{\footnotemark}{\ltx@ifpackageloaded{footnotebackref}{\raisebox{\ht\strutbox}{\hypertarget{tfn:m\theHfootnote}{{}}}}{}}}% footnotebackref not loaded}
\@tempcnta=\tfn@footnotetablecount\relax\advance\@tempcnta by -1\relax\xdef{\tfn@footnotetablecount}{\the\@tempcnta}

\tfn@updateHyper \tfn@updateHyper updates some hyperref internals.
\newcommand{\tfn@updateHyper}{% The code of this command is partly from the hyperref package by Heiko Oberdiek, 2011/10/01, v6.82j. % Newer versions of that package are available at CTAN.org. \global{\let{HypersavedCurrentHref}{\currentHref}}\tfn@hyperfootnotes{\hyperlink{tfn:#1}{\footnotemark[#1]}}{}}

\tfn@footmiscparawarn When the footmisc package is used with option para, we need to issue a warning. (Any idea how to resolve this issue?) It must be given inside of it's own command, because \ifFN@para is not defined when footmisc has not been loaded, and then the \fi would be a \fi without \if (and \TeX{} does not like single \fis).
\newcommand{\tfn@footmiscparawarn}{% \PackageWarning{tablefootnote}{Package footmisc with option para used.\MessageBreak% Unfortunately package tablefootnote is not yet able to regard this in sidewaystable\MessageBreak% Here the footnotes are printed one below the other. Sorry!\MessageBreak%} \fi}

\tfn@updatelarge \tfn@updatelarge updates large hyperref internals.
\newcommand{\tfn@updatelarge}{% The code of this command is partly from the hyperref package by Heiko Oberdiek, 2011/10/01, v6.82j. % Newer versions of that package are available at CTAN.org. \global{\let{HypersavedCurrentHref}{\currentHref}}\tfn@hyperfootnotes{\hyperlink{tfn:#1}{\footnotemark[#1]}}{}}
\tfn@footnotetext \tfn@footnotetext contains the \footnotetext[...]\{...\} command and handles the numbering. \tfn@footnotetext will be executed after the table. The foot note counter has been increased automatically with each \footnotemark, therefore it must be reset to its value before the table began.

When the hyperref package is used, also its Hfootnote counter must be reset (when the footnotes are hyperlinked).

For issuing the text for the next footnote the footnote-counter (and Hfootnote counter in case of links) are increased by one.

The hyperref package was not expecting this kind of change of the \Hfootnote numbers, therefore some code-lines are missing here which can be found at other places in that same package and are called by this command.

When hyperref is not loaded, nothing is to be done here.

The \footnotetext[...]\{...\} places the foot note text as usual.

If there is more than one tablefootnote in the \sidewaystable, the \tfn@footmiscparawarn shall be given,
but we do not want to repeat the message for a third (forth, ...) tablefootnote in the sideways table.

\gdef\tfn@fmpw{\relax}%
\fi%
\@makefnmark is
\hbox {\@textsuperscript {\normalfont @thefnmark }}, but according to \show@thefnmark here @thefnmark is {\protect \itshape} instead of \thefootnote (Why?!).

If the footnotebackref package is used, back references must be created for the table footnotes, too.

\ltx@ifpackageloaded{footnotebackref}{%
  \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
  \LetLtxMacro{\@makefntext}{\swtablemakefntext}%
  \ifthenelse{\isempty{#1}}{%
    \footnotetext{\
      \raisebox{\ht\strutbox}{\hypertarget{tfn:\theHfootnote}{}}\
      \hbox{\@textsuperscript {\normalfont\hyperlink{tfn:m\theHfootnote}{\thefootnote}}}\thinspace%
      \ifx\FootnoteBackref@symbol\empty%
      \else\hyperlink{tfn:m\theHfootnote}{\FootnoteBackref@symbol}\%
      \fi%
      #2}{}
  }{%
    \edef\tfn@tfn{\arabic{footnote}}%
    \edef\tfn@thn{\arabic{Hfootnote}}%
    \setcounter{footnote}{#1}%
    \setcounter{Hfootnote}{#1}%
    \tfn@updateHyper%
    \footnotetext{%
      \raisebox{\ht\strutbox}{\hypertarget{tfn:\theHfootnote}{}}%
      \hbox{\@textsuperscript {\normalfont\hyperlink{tfn:m\theHfootnote}{}}\thinspace%
      \ifx\FootnoteBackref@symbol\empty%
      \else%
      \raisebox{\ht\strutbox}{\hyperlink{tfn:m\theHfootnote}{\FootnoteBackref@symbol}}\%
      \fi%
      #2}%
    }%}
  \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
} % footnotebackref not loaded
\ltx@ifpackageloaded{footnotebackref}{}%
For further footnotes in the table the \texttt{\textbackslash fn@footnotetableprint}\texttt{\textbackslash fn@footnotezero}\ldots\textbackslash fi
from the beginning of this \texttt{\textbackslash fn@footnotetext} macro must not be repeated, therefore we deactivate this by defining \texttt{\textbackslash fn@footnotetableprint} to something other than 0 (here 1 is used).

\gdef\fn@footnotetableprint{1}%
\fn@footnotetableprint
\texttt{\textbackslash fn@footnotetableprint}\texttt{\textbackslash fn@footnotezero} contains the negative number of footnote texts to be printed, therefore it is increase by one (i.e. the negative number decreases, i.e. \texttt{-3} becomes \texttt{-2}).

\texttt{\textbackslash tempcnta=\fn@footnotetablecount}\relax%
\advance\tempcnta by +1\relax%
\gdef\fn@footnotetablecount{\the\tempcnta}\relax%

When it is zero, all footnote texts have been placed, and \texttt{\fn@footnotetableprint} can be reset to zero and \texttt{\fn@tablefootnoteprintout} can be cleared.

\texttt{\iffalse\fn@footnotetablecount\texttt{\fn@footnotezero}\fi all footnotes placed}
\texttt{\gdef\fn@footnotetableprint{0}\relax%
\global\let\fn@tablefootnoteprintout\relax\else there is at least one \texttt{\footnotemark} which needs \texttt{\footnotetext}\fi}

\texttt{\fn@tablefootnoteprintout} When something shall be cleared or redefined, it is a good idea to define it. It will be later filled with the note text to be printed.
\texttt{\newcommand{\fn@tablefootnoteprintout}{\relax}\relax}
\tablefootnote \tablefootnote[...]{...} is the command to be used by the user instead of \footnote[...]{...} in the \sidewaystable. It places a foot note mark via \tfn@footnotemarks and appends a \tfn@footnotetext{#1} to the \tfn@tablefootnoteprintout macro, and remembers that table foot notes have been used.

\newcommand{\tablefootnote}[2][]{% 
  \tfn@footnotemarks[#1] %
  \ifthenelse{\isempty{#1}}{\relax}{%
    \ltx@GlobalPrependToMacro{\tfn@tablefootnoteprintout}{% 
        \addtocounter{footnote}{+1}%
        \ltx@ifpackageloaded{hyperref}{% 
            \tfn@hyperfootnotes{\addtocounter{Hfootnote}{+1}}{}% 
            \tfn@updateHyper% 
        }{}% 
    }% 
  }% 
  \ltx@GlobalAppendToMacro{\tfn@tablefootnoteprintout}{% 
    \tfn@footnotetext[#1]{#2}%
    \ifthenelse{\isempty{#1}}{\relax}{%
      \addtocounter{footnote}{-1}%
      \ltx@ifpackageloaded{hyperref}{% 
        \tfn@hyperfootnotes{\addtocounter{Hfootnote}{-1}}{}% 
        \tfn@updateHyper% 
      }{}% 
    }% 
  }% 
  \gdef{\tfn@fnt{1}}% 
}%
\tfn@swtbox

For \sidewaystables the \tfn@tablefootnoteprintout is placed in a \parbox, which can be placed at the end of the \sidewaystable:

\newcommand{\tfn@swtbox}{% 
  \ifvoid{\footins}{}
    \vskip 2\baselineskip%
  \else%
    \vskip\skip\footins%
  \fi%
  \parbox[b][\topsep][t]{\linewidth}{\raggedright{\tfn@tablefootnoteprintout}}% 
}%
\tfn@tablefootnoteprintout shall be executed after the end of the table environment. The \etoolbox package provides very easy syntax for this:

\IfFileExists{etoolbox.sty}{% 
  \RequirePackage{etoolbox}[2011/01/03] v2.1
  \AfterEndEnvironment{table}{% 
    \ltx@ifpackageloaded{footnotebackref}{% 
      \LetLtxMacro{\tfncurrentmft}{\@makefntext}\
      \LetLtxMacro{\@makefntext}{\tablemakefntext}\
      \tfn@tablefootnoteprintout% 
      \LetLtxMacro{\@makefntext}{\tfncurrentmft}%%%% footnotebackref not loaded
    }% 
  }% 
  \gdef{\tfn@fnt{0}}% 
}%
When the `rotating` package has been loaded, we need to detect whether the `\tablefootnote` is placed inside of a `sidewaystable`.

```latex
\ltx@ifpackageloaded{rotating}{%
  \AtBeginEnvironment{sidewaystable}{%
    \gdef\tfn@swt{1}%
  }
}

At the end of `sidewaystable` environments `\tfn@swtbox` shall be placed (if there was any `\tablefootnote` in that `sidewaystable` at all). And `\tfn@swt` as well as `\tfn@fnt` must be reset to 0.

```latex
\AtEndEnvironment{sidewaystable}{%
  \ifx\tfn@fnt\tfn@footnotezero% \relax
  \else%
    \ltx@ifpackageloaded{footnotebackref}{%
      \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
      \LetLtxMacro{\@makefntext}{\tablemakefntext}%
      \tfn@swtbox%
      \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
    \}% footnotebackref not loaded
    \tfn@swtbox%
  \}%
  \fi%
  \gdef\tfn@swt{0}%
  \gdef\tfn@fnt{0}%
  \else \relax \fi
}
```

When the `etoolbox` package is not available (e.g. because of missing \texttt{\LaTeX}) we do a workaround:

```latex
\PackageWarning{tablefootnote}{%
  Package etoolbox not available, therefore MessageBreak%
  substituting commands \string\AtEndEnvironment\space %
  and MessageBreak%
  \string\AfterEndEnvironment\space for tablefootnotes%
  MessageBreak%
}%
\ltx@ifpackageloadedLater{letltxmacro}{2010/09/02}{%
  \GlobalLetLtxMacro{\tfnorigtable}{\table}
  \GlobalLetLtxMacro{\tfnendorigtable}{\endtable}
}
```

\GlobalLetLtxMacro was introduced in version 2010/09/02 v1.4 of the `letltxmacro` package.

```latex
}\% else
\PackageError{tablefootnote}{%
  Outdated version of letltxmacro package used%
}{{{Version 2010/09/02 v1.4 or newer needed but not found!}%
  MessageBreak%
  Update the used letltxmacro package.}%
  \LetLtxMacro{\tfnorigtable}{\table}
  \LetLtxMacro{\tfnendorigtable}{\endtable}
}
When etoolbox.sty was not found, and the float package has been loaded, and the float specifier is H, then \end{table} was let to float@endH by the float package (line 79 of float.sty, 2001/11/08 v1.3d: \expandafter\let\csname end#1\endcsname float@endH), i.e. appending \tfn@tablefootnoteprintout \gdef\tfn@fnt{0} to \end{table} is useless. Instead of this, it must be appended to float@endH.

(Why is this not necessary when etoolbox is used? That is a good question, answers are welcome.)

\ltx@LocalAppendToMacro{\float@endH}{%
  \ltx@ifpackageloaded{footnotebackref}{%
    \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
    \LetLtxMacro{\@makefntext}{\tablemakefntext}%
    \tfn@tablefootnoteprintout%
    \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
  }{% footprintbackref not loaded
    \tfn@tablefootnoteprintout%
  }
  \gdef\tfn@fnt{0}%
}{{}\relax
}\tfnorigtable%
}\{%\tfnendorigtable%
\ltx@ifpackageloaded{footnotebackref}{%
  \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
  \LetLtxMacro{\@makefntext}{\tablemakefntext}%
  \tfn@tablefootnoteprintout%
  \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
}{{} footprintbackref not loaded
  \tfn@tablefootnoteprintout%
}%
\gdef\tfn@fnt{0}%
}%
The `sidewaystable`-environment must be treated separately:

```
\let\tfnorigsidewaystable\sidewaystable
\let\tfnendorigsidewaystable\endsidewaystable
\renewenvironment{sidewaystable}{%
  \gdef\tfn@swt{1}%
  \tfnorigsidewaystable%
}{%
  \ifx\tfn@fnt\tfn@footnotezero\% \relax
  \else%
    \let\tfn@swtbox\%
    \gdef\tfn@swt{0}%
  \fi%
}
```

When the `rotating` (for `sidewaystable`es) or the `footnotebackref` (for back references for the footnotes) package is used, it must be loaded before the `tablefootnote` package. Using both packages is also possible, in which case both must be loaded before the `tablefootnote` package. If any one of those packages is loaded after this check, the according error message will not be given, but packages really should be loaded before `\AtBeginDocument`.

```
\AtBeginDocument{%
\let\tfn@swt\%
\ifx\tfn@fnt\tfn@footnotezero\%
  Package\space footnotebackref\space loaded\space after\space tablefootnote}\%
\PackageError{tablefootnote}{%
  When\space using\space both\space the\space footnotebackref\space and\space the\space tablefootnote\space package,\space MessageBreak\%
  the\space footnotebackref\space package\space MUST\space be\space loaded\space before\space the\space %
  tablefootnote\space package!\space MessageBreak\%}
\fi%
}
```

```
\AtBeginDocument{%
\let\tfn@swt\%
\ifx\tfn@fnt\tfn@footnotezero\%
  Package\space rotating\space loaded\space after\space tablefootnote}\%
\PackageError{tablefootnote}{%
  When\space using\space both\space the\space rotating\space and\space the\space tablefootnote\space package,\space MessageBreak\%
  the\space rotating\space package\space MUST\space be\space loaded\space before\space the\space tablefootnote\space %
  space\space package!\space MessageBreak\%}
\fi%
}
```

19
When the document is compiled with LuaLaTeX, hyperlinks in rotated content
will be misplaced, regardless of the use of the tablefootnote package (or of tables
or footnotes). The text to be printed will be OK. This problem of LuaLaTeX
(not tablefootnote) was found and reported by Arno Trautmann, 2011/11/15 –
thanks!

When the footnotebackref package is used but the footnotes are not hyper-
linked, neither the back references nor the tablefootnotes will work.

⟨/package⟩
6 Installation

6.1 Downloads

Everything is available on CTAN:, http://www.ctan.org/, but may need additional packages themselves.

tablefootnote.dtx

For unpacking the tablefootnote.dtx file and constructing the documentation it is required:

- \TeX\ Format \LaTeX 2ε: http://www.CTAN.org/
- package holtxdoc, 2012/03/21, v0.24, http://www.ctan.org/pkg/holtxdoc

tablefootnote.sty

The tablefootnote.sty for \LaTeX 2ε (i.e. each document using the tablefootnote package) requires:

- \TeX\ Format \LaTeX 2ε, http://www.CTAN.org/

When the hyperref package is used, also the ifluatex package is needed, but it is already loaded automatically by the hyperref package. When the etoolbox package is available, it is used:


tablefootnote-example.tex

The tablefootnote-example.tex requires the same files as all documents using the tablefootnote package and additionally:

- class article, 2007/10/19, v1.4h, from classes.dtx: CTAN:macros/latex/base/classes.dtx
- package rotating, 2009/03/28, v2.16a, http://www.ctan.org/pkg/rotating
  for \FloatBarrier
  (Well, it is the example file for this package, and because you are reading
  the documentation for the tablefootnote package, it can be assumed that you
  already have some version of it – is it the current one?)

Oberdiek

All packages of HEIKO OBERDIEK’s bundle ‘oberdiek’ (especially holtxdoc, ifluatex, letltxmacro, and ltxcmds) are also available in a TDS compliant ZIP archive: CTAN:install/macros/latex/contrib/oberdiek.tds.zip.

It is probably best to download and use this, because the packages in there are quite probably both recent and compatible among themselves.
hyperref  hyperref is not included in that bundle and needs to be downloaded separately, 

Münch  A hyperlinked list of my (other) packages can be found at http://www.ctan.org/author/muench-hm.

6.2 Package, unpacking TDS

Package.  This package is available on CTAN:

CTAN:macros/latex/contrib/tablefootnote/tablefootnote.dtx
  The source file.

CTAN:macros/latex/contrib/tablefootnote/tablefootnote.pdf
  The documentation.

CTAN:macros/latex/contrib/tablefootnote/tablefootnote-example.pdf
  The compiled example file, as it should look like.

CTAN:macros/latex/contrib/tablefootnote/README
  The README file.

There is also a tablefootnote.tds.zip available:

CTAN:install/macros/latex/contrib/tablefootnote.tds.zip
  Everything in TDS compliant, compiled format.

which additionally contains

  tablefootnote.ins     The installation file.
  tablefootnote.drv     The driver to generate the documentation.
  tablefootnote.sty     The .sty file.
  tablefootnote-example.tex  The example file.

For required other packages, please see the preceding subsection.

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

    tex tablefootnote.dtx

About generating the documentation see paragraph 6.4 below.

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

  tablefootnote.sty    → tex/latex/tablefootnote/tablefootnote.sty
  tablefootnote.pdf    → doc/latex/tablefootnote/tablefootnote.pdf
  tablefootnote-example.tex → doc/latex/tablefootnote/tablefootnote-example.tex
  tablefootnote-example.pdf → doc/latex/tablefootnote/tablefootnote-example.pdf
  tablefootnote.dtx    → source/latex/tablefootnote/tablefootnote.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.
6.3 Refresh file name databases

If your \TeX{} distribution (\TeX{}live, \mikTeX{}, \ldots{}) relies on file name databases, you must refresh these. For example, \te\TeX{} users run `\texttt{texhash}` or `\texttt{mktexlsr}`.

6.4 Some details for the interested

**Unpacking with \LaTeX.**  The `.dtx` chooses its action depending on the format:

plain \TeX{}: Run `\texttt{docstrip}` and extract the files.

\LaTeX{}: Generate the documentation.

If you insist on using \LaTeX{} for `\texttt{docstrip}` (really, `\texttt{docstrip}` does not need \LaTeX{}), then inform the autodetect routine about your intention:

\begin{verbatim}
latex \let\install=y\input{tablefootnote.dtx}
\end{verbatim}

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 a configuration file `ltxdoc.cfg`. For instance, put the following line into this file, if you want to have A4 as paper format:

\begin{verbatim}
\PassOptionsToClass{a4paper}{article}
\end{verbatim}

An example follows how to generate the documentation with pdf\LaTeX{}:

\begin{verbatim}
pdflatex tablefootnote.dtx
makeindex -s gind.ist tablefootnote.idx
pdflatex tablefootnote.dtx
makeindex -s gind.ist tablefootnote.idx
pdflatex tablefootnote.dtx
\end{verbatim}

6.5 Compiling the example

The example file, `tablefootnote-example.tex`, can be compiled via

\begin{verbatim}
latex tablefootnote-example.tex,
lualatex tablefootnote-example.tex,
\end{verbatim}

or (recommended)

\begin{verbatim}
pdflatex thumbs-example.tex
\end{verbatim}

and will need at least two compiler runs to get everything right.

7 Acknowledgements

I would like to thank HEIKO OBERDIEK for providing the `\texttt{hyperref}`, `\texttt{ifluatex}`, `\texttt{letltxmacro}`, `\texttt{bxcmds}`, as well as a lot (!) of other useful packages (from which I also got everything I know about creating a file in `.dtx` format, OK, say it: copying), and for information about the pdf\TeX{}-bug, ARNO TRAUTMANN for reporting the bug of misplaced hyperreferences in `\texttt{sidewaystable}s` using Lua\TeX{}, independently of the `\texttt{tablefootnote}` package or footnotes at all, THOMAS V. for reporting the bug of not handling the case of `\texttt{hyperref}` option `\texttt{hyperfootnotes=false}`, SVERRE STAUSLAND JOHNSEN for reporting the bug in case of `\texttt{not}` using `\texttt{hyperref}`, and the `\texttt{news:comp.text.tex}` and `\texttt{news:de.comp.text.tex}` newsgroups as well as everybody at `http://tex.stackexchange.com` for their help in all things \TeX{}.
8 History

[2011/10/26 v1.0a, tabfootn]
- Upload to CTAN:macros/latex/contrib/tablefootnote/.

[2011/10/29 v1.0b]
- Renamed to tablefootnote.
- Added support for the \sidewaystable-environment of the \rotating package.
- Diverse changes in documentation and README.

[2011/11/06 v1.0c]
- Replaced $^\text{\thefootnote}$ by $^\text{\textup{\textsuperscript{\thefootnote}}}$.
- Bug fix: When etoolbox.sty was not found, and the float package had been loaded, and the float specifier was H, then the \tablefootnotes were not printed for that table. Fixed.

[2011/11/19 v1.0d]
- Replaced $\{\text{\textsuperscript{\thefootnote}}}$ by \textsuperscript{\thefootnote}, therefore the amstext package is no longer required by the tablefootnote package.
- lscape and pdflscape package now work with tablefootnote (except for using a \sidewaystable on a landscape page).
- Added information about footnotes in \sidewaystable being printed one below the other, even if footmisc package with option para is used.
- Redefined \tfn@swtbox from

\vspace{0.8cm}\%  
\begin{spacing}{0.1}\%  
\subcaptionbox*{}[\linewidth][l]{\tfn@tablefootnoteprintout}\%  
\end{spacing}\%


\vspace{2\baselineskip}\%  
\parbox[b][t]{\linewidth}[t]{\raggedright\tfn@tablefootnoteprintout}\%  

, therefore the \setspace and subcaption packages are no longer required by the tablefootnote package.

- No longer uses \numexpr, therefore also usable without \$\LaTeX\$.
- Replaced \textsuperscript{\thefootnote} by \hbox {\@textsuperscript {\normalfont \thefootnote}}, which is next to the original definition of \@makefnmark
\hbox {\@textsuperscript {\normalfont \@thefnmark}}, but according to \show\@thefnmark here \@thefnmark is \protect \itshape instead of \thefootnote).
• Added an error message, when LuaTeX, rotating package, and hyperref package are used together. Hyperreferences in \texttt{sidewaystable}s are misplaced, independently of the \texttt{tablefootnote} package or footnotes at all. (Bug reported by \textsc{Arno Trautmann}, 2011/11/15 – thanks!)

• Added footnotesymbol-footnote-numbers in the example.

\textbf{[2011/11/26 v1.0e]}

• Check for hyperref is only done once.

• Message regarding the misplacement of hyperlinks by LuaLaTeX changed form error to warning.

• Replaced \texttt{\vspace{2\baselineskip}} by

\begin{verbatim}
  \ifvoid \footins\
  \vskip 2\baselineskip\
  \else\
  \vskip \skip\footins\
  \fi\n\end{verbatim}

between the \texttt{sidewaystable}s and their footnotes.

• The warning about un-regarded para-option of \texttt{footmisc} package is only given at the second \texttt{tablefootnote} in a \texttt{sidewaystable}, not repeatedly for every \texttt{tablefootnote} in a \texttt{sidewaystable}.

\textbf{[2012/01/01 v1.0f]}

• Bugfix: Wrong installation path given in the documentation, fixed.

• Update of documentation, README, and \texttt{dtx} internals.

\textbf{[2012/01/14 v1.0g]}

• Bugfix: There was a \texttt{relax} instead of a \texttt{\relax}, fixed.

\textbf{[2012/07/29 v1.0h]}

• \texttt{tablefootnote} is now compatible to the new \texttt{footnotebackref} package, 2012/07/01, v1.0, \url{http://www.ctan.org/pkg/footnotebackref}.

\textbf{[2014/01/08 v1.1a]}

• Tablefootnotes now regard optional footnote marks: \texttt{\tablefootnote[ custom mark here! ]{...}}

• Bug fix: the case of hyperref option \texttt{hyperfootnotes=false} was not handeled at all. (Bug reported by \textsc{Thomas V.}, 2014/01/02 – thanks!)

• A lot of details.

\textbf{[2014/01/20 v1.1b]}

• Bug fix: Package was broken when hyperref was \texttt{not} used. (Bug reported by \textsc{Sverre Stausland Johnsen – thanks!})
[2014/01/26 v1.1c]

- The emergency bug fix of version 2014/01/20 v1.1b was replaced by using the new robust macro \texttt{\textbackslash fn@hyperfootnotes}, which only internally uses \texttt{\textbackslash ifHy@hyperfootnotes}. If the hyperref package is not used, \LaTeX{} now does not see any confusing \texttt{\textbackslash ifHy@hyperfootnotes...\textbackslash else...\textbackslash fi} at all.

- URLs and README updated.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

9 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.

Symbols
\begin{verbatim}
\@currentHref  ... 320, 322, 323
\@ifpackagelater  ... 205, 517, 531
\@ifpackageloaded  ... 203
\@makefntext  ... 360, 361, 392, 480, 481, 483, 497, 498, 500, 546, 547, 549, 560, 561, 563, 579, 580, 582
\@tempcnta  ... 299, 300, 301, 431, 432, 433
\@textsuperscript  ... 365, 378, 396, 415
\@thefnmark  ... 242, 250, 260, 262, 273
\@fnsymbol  ... 74, 75
\@footins  ... 468, 471
\@footnote  ... 53
\@FootnoteBackref@symbol  ... 237, 265, 367, 381, 384
\@footnotemark  ... 284, 292, 293, 294, 437
\@footnotetext  ... 343, 346, 348, 350, 359, 376, 395, 414, 437
\@GlobalLetLtxMacro  ... 519, 520
\@ht  ... 286, 296, 347, 364, 377, 383, 399, 417
\@Hy@footnote@currentHref  ... 322
\@Hy@saved@currentHref  ... 320, 323
\@hyper@makecurrent  ... 321
\@hyperlink  ... 242, 260, 265, 292, 366, 368, 379, 384
\@hyperref  ... 22
\@hypertarget  ... 286, 296, 347, 364, 377, 400, 418
\end{verbatim}
| \label          | 87, 105, 122, 158, 175 |
| \LetLtxMacro    | 360, 361, 392, 480, 481, 483, 497, 498, 500, 527, 528, 546, 547, 549, 560, 561, 563, 579, 580, 582 |
| \linewidth      | 21 |
| \listoftables   | 70 |
| \ltx@GlobalAppendToMacro | 454 |
| \ltx@GlobalPrependToMacro | 446 |
| \ltx@LocalAppendToMacro | 544 |
| \ltxcmds        | 21 |
| \M"{u}nch       | 22 |
| \makebox        | 240, 248, 257, 271 |
| \mbox           | 241, 249, 258, 272 |
| \newcommand     | 239, 247, 256, 270, 279, 281, 304, 316, 326, 441, 443, 467 |
| \normalfont     | 241, 249, 258, 272 |
| \Oberdiek       | 21 |
| \PackageError   | 522, 597, 609, 637, 649 |
| \PackageWarning | 306, 510 |
| \PackageWarningNoLine | 208, 534, 622 |
| \pagenumbering  | 35 |
| \parbox         | 473 |
| \raggedright    | 473 |
| \raisebox       | 286, 296, 347, 364, 377, 383, 399, 417 |
| \ref            | 55, 56, 57, 77, 125, 137 |
| \renewcommand   | 74, 75, 92, 93 |
| \renewenvironment | 542, 572 |
| \RequirePackage | 195, 196, 197, 477 |
| \setcounter     | 373, 374, 388, 389, 409, 411, 422, 424 |
| \sidewaystable  | 570 |
| \skip           | 471 |
| \strutbox       | 286, 296, 347, 364, 377, 383, 399, 417 |
| \swtablemakefntext | 279, 361 |
| \table          | 519, 527 |
| \tablefootnote  | 82, 83, 84, 101, 102, 103, 118, 119, 120, 149, 151, 154, 171, 172, 173, 192, 443 |
| \tablefootnote-example.tex | 21 |
| \tablefootnote.dtx | 21 |
| \tablefootnote.sty | 21 |
| \tablemakefntext | 21 |
| \textsuperscript | 241, 249, 258, 272 |
| \tnf@fmpw       | 224, 354, 356, 357 |
| \tnf@fnbr       | 225, 236, 596 |
| \tnf@fnt        | 222, 464, 487, 494, 506, 553, 567, 576, 588 |
| \tnf@footmiscparawarn | 304, 354 |
| \tnf@footnotemarks | 281, 444 |
| \tnf@footnotetablecount | 219 |
| \tnf@footnotetableprint | 220, 327, 353, 430, 435 |
| \tnf@footnotetext | 326, 455 |
| \tnf@footnotezero | 221, 327, 341, 353, 434, 494, 576, 596, 608 |
| \tnf@hyperfootnotes | 227, 291, 321, 331, 338, 345, 398, 407, 411, 417, 424, 449, 459, 620, 636 |
| \tnf@rotating   | 204, 216, 608 |
| \tnf@swt        | 223, 341, 491, 505, 573, 587 |
| \tnf@swtbox     | 467, 499, 502, 581, 584 |
| \tnf@tablefootnoteprintout | 436, 441, 444, 454, 473, 492, 485, 548, 551, 562, 565 |
| \tnf@tfn        | 371, 388, 405, 422 |
| \tnf@thn        | 372, 389, 407, 424 |
| \tnf@updateHyper | 316, 333, 339, 375, 390, 412, 425, 450, 460 |
| \tnfcurrentmft  | 360, 392, 480, 483, 497, 500, 546, 549, 560, 563, 579, 582 |
| \tnfendorigsidewaystable | 571, 589 |
| \tnfendorigtable | 520, 528, 558 |
| \tnforsidewaystable | 570, 574 |
| \tnforigtable   | 519, 527, 556 |
| \thefootnote    | 74, 75, 92, 93, 366, 396 |
| \thefootnote    | 242, 260, 265, 286, 364, 366, 368, 400 |
| \unit           | 32, 49, 50 |
| \vskip          | 469, 471 |