fnlineno.sty

Numbering Footnote Lines*

January 29, 2025

Abstract

fnlineno.sty extends lineno.sty¹ (created by Stephan I. Böttcher) such that even \footnote lines are numbered and can be referred to using \linelabel, \ref, etc.

Making the package was motivated as support for *critical editions* of *printed works with footnotes* as opposed to scholarly critical editions of *manuscripts*. For this purpose, an extension edfnotes of the ednotes package for critical editions, building on fnlineno, is provided by the *ednotes* bundle. 2

lineno.sty has also been used for the revision process of *submissions*. With fnlineno.sty, reference to footnotes in the submitted work may become possible.

As to implementation: 1. Some included tools for storing and restoring global settings may be "exported" as standalone packages later. 2. The method of typesetting footnotes on the main vertical list may later lead to applying the line numbering method to several parallel texts (with footnotes) and to inner material such as table cells.

Keywords: line numbers; footnotes, pagewise, critical editions, revision

Contents

1	Usage and Features				
	1.1	Package File Header (Legalize)	2		
	1.2	Installing and Calling	3		
	1.3	Limitations	3		

^{*}This document describes version v0.55 of fnlineno.sty as of 2011/01/07.

¹http://ctan.org/pkg/lineno

²http://ctan.org/pkg/ednotes

2 Basic	Strategy	4			
	age Options	4			
	Footnote Commands				
		4			
		Ę			
		6			
-		(
_		6			
		7			
		8			
_		1(
		11			
		11			
		11			
		12			
		13			
2.6.5		15			
2.6.6		16			
	0 11 0 0	18			
2.6.8		18			
2.6.9		20			
7 Leavi		21			
cknowle	dgements	22			
VERSION HISTORY					
	2.4.1 2.4.2 5 Outpu 2.5.1 2.5.2 2.5.3 2.5.4 2.5.5 6 "Cont 2.6.1 2.6.2 2.6.3 2.6.4 2.6.5 2.6.6 2.6.7 2.6.8 2.6.9 7 Leavin	2.4.1 Standard Footnotes 2.4.2 Modifying Footnote Commands Output Routines 2.5.1 lineno's Output Routine 2.5.2 Tools for Temporary Parameter Changes 2.5.3 The basic hook 2.5.4 Typesetting the Footnote Text 2.5.5 \insert the Footnote Text 2.5.6 "Continuous" Numbering 2.6.1 Goal 2.6.2 How to Number Lines Pagewise 2.6.3 Summary of Changes 2.6.4 Info Building 2.6.5 Tool for Reusing Global Operations with Macros 2.6.6 General Settings for Typesetting Stage 2.6.7 Logging 2.6.8 "Public" Line Numbers 2.6.9 Referencing 7 Leaving the Package File			

1.1 Package File Header (Legalize)

```
NeedsTeXFormat{LaTeX2e}[1994/12/01]

ProvidesPackage{fnlineno}[2011/01/07 v0.55]

numbers to footnote lines (UL)]

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%%

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```

```
15 %%
16 %% https://github.com/latex-lineno/lineno
17 %%
```

This work has been supported by the Deutsche Forschungsgemeinschaft (DFG), organized by Prof. Dr. Dr. Christian Tapp at Ruhr-Universität Bochum, Germany. Christian also has constructed some critical tests.

1.2 Installing and Calling

The file fnlineno.sty is provided ready, installation only requires putting it somewhere where TEX finds it (which may need updating the filename data base).³
As usually, fnlineno.sty is loaded by \usepackage{fnlineno} below the \documentclass line and before \begin{document}.

1.3 Limitations

v0.55 should really work the way users expect, but please consider:

- 1. Nothing is known about compatibility with packages (other than manyfoot and bigfoot) providing footnote features beyond standard LATeX.
- 2. $\langle pt-arg \rangle$ in main text produces a different number of paragraphs . . .
- 3. v0.41 tried supporting \pagebreak in footnotes for manual control of splitting footnotes. However, it wrongly assumed that \pagebreak[4] forces a footnote split, cf. Section 2.5.3; users better still don't use \pagebreak in footnotes!
- 4. Much of the code is "guessed" without complete knowledge of TEX internals and without having tested many possible cases.
- 5. Local switching to "pagewise" numbering won't be possible for a while; we rather assume that you always want "pagewise" numbering.
- 6. Nothing has been tried to offer choices about the *style* of numbering footnotes.

 $^{^3}$ http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf

2 Implementation

2.1 Terms

"OTR" is short for "output routine", "MVL" is short for "main vertical list".

2.2 Basic Strategy

If TeX's \Offortnotetext writes the footnote text into the insertion register. For numbering the footnote lines, we here do not execute this \Offortnotetext immediately after placing \Offortnotemark, but postpone its \insert a little so it is executed only after the main text paragraph has been broken into lines. Right below the line that contains the footnote mark, a special new "slot" of the OTR is called that interchanges "the page so far" with the footnote text. When the latter has been typeset, another "slot" of the OTR puts "the page so far" back to the MVL and immediately after that fills the footnote text as just typeset on the MVL into the \insert register.

Passing footnotes from horizontal mode to vertical mode resembles lineno's \P with a different list \P must store code \P for the footnote \P and \P for the footnote text.

2.3 Package Options

A package option [check-latex] for checking vital LaTeX internals may once be offered (TODO 2010/12/12) ...

- 18 \newif\if@FNLN@check@
- 19 \DeclareOption{check-latex}{\@FNLN@check@true}
- 20 \ProcessOptions

2.4 Footnote Commands

2.4.1 Standard Footnotes

The following macro \[\subsection{\text{NeInQltxQfntext}} \] is a copy of LATEX's \\ \text{Qfootnotetext} \] that we are varying. It may be used for a check if the \\ \text{Qfootnotetext} \) that fnlineno.sty encounters is the one expected (TODO). In line numbering mode, this code may never be needed all at once, rather we will have to see which material must be used at which point of our unusual way of processeing footnotes.

```
\if@FNLN@check@
21
       \long\def\FNLN@ltx@fntext#1{\insert\footins{%
22
           \reset@font\footnotesize
23
24
           \interlinepenalty\interfootnotelinepenalty
           \splittopskip\footnotesep
25
           \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
26
           \hsize\columnwidth \@parboxrestore
27
           \protected@edef\@currentlabel{%
              \csname p@footnote\endcsname\@thefnmark
```

```
30 }%
31 \color@begingroup
32 \@makefntext{%
33 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
34 \color@endgroup}}%
```

2.4.2 Modifying Footnote Commands

In order to number \footnote lines and make \linelabel available in footnotes, it seems to suffice (with standard L*TeX) to redefine the internal \@footnotetext. In line numbering mode, \@footnotetext will act as \FNLN@text, (i) placing a "signal" output penalty below the current line via \vadjust and (ii) appending the footnote text to the list \FNLN@list of footnote texts.

```
36
     \let\FNLN@@text\@footnotetext
37
     \def\@footnotetext{%
                         \expandafter \FNLN@text
38
         \ifLineNumbers
                          \expandafter \FNLN@@text
39
         \else
         \fi}
40
     \def \FNLN@text {%
                                               %% 2010/12/31 arg read later
41
         \vadjust{\penalty-\FNLN@M@swap@codepen}%
```

Standard IATEX's \@footnotetext expands \@thefnmark to produce the footnote mark at the page bottom, right after it has been determined for the mark in the main text. Here the footnote text will be typeset only when other footnote marks may have been formed for typesetting the main text paragraph before. In the footnote list macro \[\frac{\text{FNLNQlist}}{\text{fine}} \], the (&\protected) current expansion $\langle mark \rangle$ of \@thefnmark is stored as an item preceding the footnote text $\langle text \rangle$. One footnote entry in \FNLNQlist thus has the form '\langle mark \\ @lt\langle text \\ \ext{Qlt}\langle Clt'. IATEX's internal \g@addto@macro is used to append an entry to the list (at the right). The OTR will later take the entries from the left of the list.

The argument of the auxiliary/temporary \@tempa will contain the footnote text and thus must be able to carry \par tokens. We therefore need a \long version of \protected@edef:

```
\let\@@protect\protect
43
         \let\protect\@unexpandable@protect
44
         \afterassignment\restore@protect
45
         \long \edef \@tempa ##1{%
46
               \noexpand\g@addto@macro \noexpand\FNLN@list {%
47
                    \@thefnmark \noexpand\@lt ##1\noexpand \@lt}}%
  ... issuing '\g@addto@macro\FNLN@list\{\langle mark \rangle \setminus \{text \rangle \setminus \{text \} \}' ...
         \@tempa
                                                     %% reads arg
     }
50
```

```
Here we initialize \FNLN@list:
```

51 \let\FNLN@list\@empty

2.5 Output Routines

2.5.1 lineno's Output Routine

The following is a copy of lineno's OTR that we are varying. It may be used for a check if the OTR that fnlineno.sty encounters is the one expected (TODO).

```
52
     \if@FNLN@check@
53
       \def\FNLN@lno@output {%
54
         \LineNoTest
         \if@tempswa
           \ifnum\outputpenalty=-\@Mllbcodepen
56
              \WriteLineNo
57
           \else
58
              \ifnum\outputpenalty=-\@Mppvacodepen
59
                \PassVadjustList
60
              \else
                \LineNoLaTeXOutput
62
63
              \fi
64
           \fi
         \else
65
66
           \MakeLineNo
67
         \fi
68
```

The "signal penalties" used here are

```
69 \mathchardef\FNLN@M@llbl@codepen=11111
70 \mathchardef\FNLN@M@ppva@codepen=11112
71 \fi
```

Their names should mean "\linelabel code penalty" and "\PostponeVadjust code penalty."

\TheLineNoLaTeXOutput: It turns out to be inconvenient here that lineno sacrifices access to the *primitive* \output ("\@tempa"; TODO: auxiliary package before loading lineno!?; later change lineno.sty indeed). So to change the OTR we use \LineNoLaTeXOutput as a hook for adding additional cases of \outputpenalties. We take a copy of \LineNoLaTeXOutput here.

72 \let\TheLineNoLaTeXOutput\LineNoLaTeXOutput

2.5.2 Tools for Temporary Parameter Changes

```
 \boxed{ \langle GStoreReg \{ \langle register \rangle \} } \quad (or \quad \boxed{ \langle GStoreReg \langle register \rangle }
```

when $\langle register \rangle$ is a single token—'\count0' being a counterexample...) stores the current content of $\langle register \rangle$ (globally) as an internal macro so that it can

```
be restored later by
```

or globally by

(The OTR runs in a local group!—Recall that assignments to "special dimens"—TEXbook p. 271—are automatically global.) $\langle register \rangle$ is something that can be prefixed by $\$ to read its content and to which you can assign a value $\langle value \rangle$ by ' $\langle register \rangle \langle value \rangle$ '. (TODO: could also be some $\$ catcode!)

- 73 \newcommand*{\GStoreReg}[1]{%
- 74 \expandafter \xdef \csname GS\string#1\endcsname {\the #1}}
- 75 \newcommand*{\RestoreReg}[1]{#1\csname GS\string#1\endcsname \relax}
- 76 \newcommand*{\GRestoreReg}{\global\RestoreReg}

 $\GStoreSetReg\{\langle register\rangle\}\{\langle value\rangle\}\]$ assigns $\langle value\rangle$ to $\langle register\rangle$ (locally) after executing \GStoreSet , \GStoreGSetReg does the same globally (and still argument braces aren't needed when a single token refers to the register).

- 77 \newcommand*{\g@storesetreg}[3]{\GStoreReg{#2}#1#2#3\relax}
- 78 \newcommand*{\GStoreSetReg} {\g@storesetreg\relax}
- 79 \newcommand*{\GStoreGSetReg}{\g@storesetreg\global}

(These preliminaries might go into an own new package, TODO! + loop on list of $\langle register \rangle$ s . . .)

2.5.3 The basic hook

We use two more penalties triggering the "MVL swaps:"

- 80 \mathchardef\FNLN@M@swap@codepen =11113
- 81 \mathchardef\FNLN@M@insert@codepen=11114

v0.41 deals with \pagebreak in footnote texts, using a flag \ifthetaferNLN@sw@ that must be set globally. It turned out not to work properly; however, the new switch has served a different purpose for "continuous line numbering," cf. section 2.6.

82 \newif\if@FNLN@sw@ \global\@FNLN@sw@false %% v0.41

When a \pagebreak triggers the OTR while typesetting the footnote text, the page content is collected in a box \\FNLN@holdft\]:

83 \newsavebox\FNLN@holdft

%% v0.41

Using \LineNoLaTeXOutput for hooking into the OTR:

- 84 \renewcommand*{\LineNoLaTeXOutput}{%
- 85 \ifnum\outputpenalty=-\FNLN@M@swap@codepen
- 86 \SwapFootnoteMain
- 87 \else

```
\ifnum\outputpenalty=-\FNLN@M@insert@codepen
88
           \InsertFootnote
89
         \else
90
           \if@FNLN@sw@
                                                   %% v0.41
91
     %
              \showthe\outputpenalty
                                           %% 2010/12/20
92
93
             \global\setbox \FNLN@holdft \vbox{%
94
               \unvbox\FNLN@holdft
```

TODO from v0.41: \pagebreak[4] does not seem to force (reliably) splitting a footnote; if the footnote is not split here, at present the \baselineskip is lost, see the footnote paragraph starting with 'C' in edfndemo.pdf as of 2010/12/21. We would need some measuring ... \pagebreak might be redefined ... resembling LATEX's \@specialoutput!

```
95 \unvbox\@cclv
```

TODO same problem here, see the footnote paragraph starting with 'D' in edfndemo.pdf as of 2010/12/21.

```
\penalty\outputpenalty}%
96
97
              %% TODO reset page book-keeping!?
                                                     %% v0.41
            \else
98
                                            %% "the real \LineNoLaTeXOuput"
              \TheLineNoLaTeXOutput
99
100
            \fi
101
          \fi
102
        \fi
103
     }
```

An idea: Instead of so many \ifnum, use

 \dots in lineno.sty, when you really have a broad range of **\outputpenalties** useful to be described by **\ifnum** range checks \dots

2.5.4 Typesetting the Footnote Text

\SwapFootnoteMain is the slot of the OTR that our modified \@footnotetext calls with \outputpenalty = -\FNLN@M@swap@codepen. The "column so far" is stored in a new box register \\FLNL@holdcol\.

The entire text of a footnote is typeset on top of the MVL. \vsize is maximized temporarily to avoid that the footnote text is broken across pages.

```
107 \GStoreGSetReg\vsize\maxdimen
```

However, the user may want to use \pagebreak in a footnote in order to control manually where a "long" footnote is split. v0.41 tries to support this:

 \dots cf. Section 2.5.3.

There shouldn't be any **\topskip**, the space on top of a footnote is controlled by **\footnotesep** entirely:

```
109 \GStoreGSetReg\topskip\z@skip
```

(\nointerlineskip as well as setting \topskip locally instead fails ... according to \showlists ...)

Resetting \pagegoal (why doesn't it switch to \vsize = \maxdimen automatically?), \pagetotal, and the other "special dimens" (TeXbook p. 271; rather experimental ... I think it is important to restore them later ...)

```
\GStoreSetReg\pagegoal \vsize
110
          \GStoreSetReg\pagetotal\z@
111
          \verb|\GStoreSetReg|| pagestretch|| z@
112
          \GStoreSetReg\pagefilstretch\z@
113
          \GStoreSetReg\pagefillstretch\z@
114
          \GStoreSetReg\pagefill1stretch\z@
115
          \GStoreSetReg\pageshrink\z@
116
          \GStoreSetReg\pagedepth\z@
117
```

We must choose certain settings from \@footnotetext such as font:

```
118 \reset@font\footnotesize
119 \interlinepenalty\interfootnotelinepenalty
```

LATEX's split things here are relevant at \insert\footins only: (TODO!?)

```
120 % \splittopskip\footnotesep
121 % \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
122 \hsize\columnwidth \@parboxrestore
```

The previous lines were from IATEX's \@footnotetext. Now we need to restore the \@thefnmark that belongs to the current footnote text. We use a macro that tears two items from \FNLN@list and executes the rest of IATEX's \@footnotetext:

```
123 \expandafter \FNLN@typeset \FNLN@list \@@ 124 % \showthe\vsize
```

... so a \vsize assignment without \global is noted here, and an analogous \topskip assignment is not!? TODO ...

```
125 }
```

\[\FNLN@typeset \] first removes something from the list of footnotes, similarly to \[\alpha \text{TEX's \Qxnext} \] and \[\lineno's \QLN@xnext, \text{ then executes a remaining portion of \[\alpha \text{TEX's \Qfootnotetext}. \] The footnote text may contain \par tokens, so the definition must be \long:

```
126
     \label{longlet} $$ \prod fNLN0typeset #1\0lt #2\0lt #3\00{\%}
127
          \gdef\FNLN@list{#3}%
          \def\@thefnmark{#1}%
128
  This was our own, and next LATEX continues:
129
          \protected@edef\@currentlabel{%
             \csname p@footnote\endcsname\@thefnmark
130
131
132
          \color@begingroup
  We insert starting the lineno settings ...
            \linenumbers
133
                                                          %% 2010/12/25
134
            \setfootnotelinenumbers
    . LATEX again (v0.41 exports dealing with closing \par to finstrut.sty):
            \@makefntext{%
135
              \rule\z@\footnotesep\ignorespaces
136
  We replace #1 by #2\par (\linenumberpar), so we really need finstrut.sty:
137
              #2\par
138
              \@finalstrut\strutbox}%
          \color@endgroup
139
  Now we trigger the "swap back slot" of the OTR:
          \penalty-\FNLN@M@insert@codepen
140
141
142
     \RequirePackage{finstrut}
```

2.5.5 \insert the Footnote Text

\InsertFootnote is the slot of the OTR that executes \insert\footins with the numbered footnote text. The "column so far" stored in \FNLN@holdcol is put onto the top of the MVL, and then parts of LATEX's \@footnotetext are performed that haven't been done earlier, applied to the footnote text that the OTR should have found in \box255. Before however, the previous \topskip, \vsize, and the \page... book-keeping parameters are restored:

```
143 \newcommand*{\InsertFootnote}{%
144 \GRestoreReg\topskip \GRestoreReg\vsize
```

```
(... global restoring of \vsize proved vital with edfndemo 2010/12/17...)
          \RestoreReg \pagegoal
                                     \RestoreReg\pagetotal
145
146
          \RestoreReg \pagestretch
147
          \RestoreReg \pagefilstretch
          \RestoreReg \pagefillstretch
148
          \RestoreReg \pagefilllstretch
149
                                     \RestoreReg\pagedepth
          \RestoreReg \pageshrink
150
          \unvbox\FNLN@holdcol
151
          \insert\footins{%
152
              \splittopskip\footnotesep
153
              \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
154
  Support of \pagebreak with v0.41:
              \unvbox\FNLN@holdft
                                                    %% v0.41
155
              \unvbox\@cclv}%
156
          \global\@FNLN@sw@false
                                                    %% v0.41
157
  With v0.5, global settings for "pagewise" numbering must be restored:
158
          \unsetfootnotelinenumbers
159
     }
```

2.6 "Continuous" Numbering

2.6.1 Goal

With v0.5, for the first time we try to get a "pagewise" numbering such that, if a main text line has a footnote, (i) its printed number is just the natural successor of the printed number of the previous main text line (instead of continuing previous numbering with the lines of the footnote first), and (ii) the printed numbers of footnote lines just continue the printed numbers of the main text lines. This "obvious" desirement is not easy to achieve; already pagewise numbering of main text lines, without numbering footnote lines, has been somewhat ingenious.

2.6.2 How to Number Lines Pagewise

The basic idea of lineno's pagewise numbering is:

- 1. Each numbered line of the document is identified by a unique counter value, an "absolute" number.
- 2. For each page (and column), the range of absolute line numbers occurring on them is recorded (or actually: the first and the last number).
- 3. The "public," "human-readable" ("pagewise") format of a given absolute line number l is generated by (i) finding the page (and column) with first number n and last number k such that $n \leq l \leq k$, (ii) "printing" l-n+1 in "columnwise" mode, otherwise l-m+1 where m is the first absolute line number in the left-hand column of the same page.

Generating the "pagewise" representation for a given absolute line number l thus may be summarized as *finding the corresponding* **offset** value to be subtracted $(n, n + 1, m, \text{ or } m + 1 \dots)$.

When footnote lines are to be numbered as well, a little problem is the order in which main text and footnote lines increment the absolute counter. lineno's mechanism for this is started immediately after a paragraph has been broken into lines. Each line of the paragraph then calls a macro generating the line number. fnlineno now interrupts numbering of main text lines at a line issuing a footnote. The footnote text is typeset, including numbering its lines at each end of a footnote paragraph. When the footnote text has been sent into the \insert register, numbering of main text lines is resumed.

Up to v0.4 (a development version), we used the *same* absolute counter for main text and footnote lines. When a page p has more than one main text line and the first one has a long footnote continued on the next page p+1, there is no "range" of absolute line numbers characterizing page p any more, because the greatest absolute line number of page p exceeds the absolute line numbers of the footnote continued on page p+1.

lineno's procedure can be revived by numbering main text lines and footnote lines independently from each other. We use *two* absolute counters, one is incremented with main text lines only, the other with footnote lines only. Numbering of main text lines just will not be affected by numbering of the footnote lines.

Almost the same will hold for footnote lines. Each page (and column) will have a characteristic "range" of absolute footnote line numbers $\{n,\ldots,k\}$. The only notable difference will be that for footnote line l we print (l-n+1)+(K-N+1)=(K+l)-(N+n)+2 instead of l-n+1—where $\{N,\ldots,K\}$ is the range of main text line numbers of the page (and column).

The previous discussion of **generating** the printed line number from its absolute version has assumed that corresponding **offset** values have been given somehow, or that the "line number ranges" for pages are known from somewhere. In fact, these ranges are **computed** at the **start** of a LATEX run before typesetting, when reading the .aux file for the first time. They are used in the entire document. While typesetting, each numbered line of main text leaves a record of its absolute number and page number in the new version of the .aux file that the run creates, a two-parameter macro \QLN. With fnlineno.sty, there will be new \QFLN entries of the same type. These .aux entries are used for building the page range data for the next run. When the document source has been changed, at least two runs will usually be required to get correct line numbers in page margins, and another run will be needed so references to line numbers by \ref and \linelabel are correct.

2.6.3 Summary of Changes

Variants of lineno.sty's code for "pagewise" numbering are following. Sometimes we generalize pagewise stuff from lineno and re-implement pagewise numbering of main text lines as a special case, the other special case being numbering of footnote lines.

Five things need modifications:

- Building page info macros: Processing \@LN and \@FLN .aux entries will use shared building macros, the difference is obtained by switching name spaces. (It may be notable that a page may get one info macro for main text and another for footnote text, if it contains footnote text.)
- Logging: While typesetting, the shared logging macro is switched to write either \QLN or \QFLN to the .aux file. Also, \cQlinenumber may refer to either the main text or to the footnote text counter.
- Generating "pagewise" format: The choice of \colinenumber also determines which counter is incremented, and again name spaces for page info macros are switched. For footnote lines, a tail macro for adding the number of main text lines will be activated.
- Referencing: The .aux file may have entries from \linelabel containing large numbers from an "absolute" counter. In generating the "human-readable" number, it must be known whether it is a main text or a footnote line number. An additional complication is referring to a main text line from a footnote and vice versa—thinking of global changes in generating the number. Or even think of the case referring from unnumbered text to numbered text! (I have wondered before if the entry couldn't be the ready human-readable number, TODO!)
- Lists of "vertical tasks": lineno.sty (v4) has introduced two lists of tasks that were issued in horizontal mode but only can be completed after breaking a paragraph into lines: one for \linelabels and one for \vadjust items that must wait until the line number has been attached. It is essential that the tasks are processed in the same order in vertical mode as they were issued in horizontal mode. As we are now interrupting processing of main text paragraphs for processing footnotes, tasks for footnote text must be lined up in separate lists than tasks for main text. This is indeed essential for the previous issue of getting \linelabel work in footnotes as well as in main text.

2.6.4 Info Building

\(\begin{align*} \begin{align*} \beg

160 \def \FLN@Pfirst {\nextLN\relax}

This initialization of \FLN@Pfirst is just the same as the one of \LN@Pfirst in lineno.sty; their expansions are changed as soon as such a page is found, replacing the \relax by the corresponding page info macro.

\LN@Pfirst and \FLN@Pfirst are passed to \testFirstNumberedPage via the hook \FNLN@first@numbered that by default is the same as \LN@first:

161 \def \FNLN@first@numbered {\LN@Pfirst}

(oh, it must be \def here to recognize the change ...). This must be changed by \setfootnotelinenumbers (\let then, as when called the change will have happened).

Moreover, they are passed to \[\NumberedPageCache \] (the page info macro where a search starts, "current" page/column) as its initialization; the "generating" macros then change the latter macro following \nextLN in the page info macros.

In this sense, no other "name space switching" is needed for communication with other functions.

lineno.sty has changed \LastNumberedPage globally ... the last page with numbered footnote lines may well be another one than the last page with numbered main text lines ... But fortunately, also \LastNumberedPage is needed in reading the .aux before typesetting only (\@onlypreamble is LATEX's disabling command):

162 \@onlypreamble\LastNumberedPage

In lineno.sty, we have \def\LastNumberedPage{first}. We need the same for the footnote variant \FNLN@last@numbered (to be handled globally!):

```
163 \global \let \FNLN@last@numbered \LastNumberedPage
164 \@onlypreamble \FNLN@last@numbered
```

```
 | \c NLN{\langle names \rangle} \langle last-numbered \rangle \{\langle line \rangle\} \{\langle page \rangle\} |
```

generalizes lineno.sty's $\CDN{\langle line \rangle}$ } $\langle page \rangle$ } to re-implement it. There is an additional parameter argument $\langle names \rangle$ for choosing name spaces and a parameter $\langle last-numbered \rangle$ for choosing the macro storing the "last numbered page." (An argument without braces expects a macro name.)

```
165 \newcommand* \@FNLN [4]{{%
166 \expandafter\@QLN
167 \csname #1#4C\@LN@column \expandafter\endcsname
168 \csname #10#4\endcsname
169 \{#3\{#4\{#1\{#2\}\}
170 \@onlypreamble\@FNLN
```

As in lineno.sty \CLN calls \CLN , a new variant of \CLN is called by \CLN here, but it gets one additional parameter for passing $\langle names \rangle$ and another for passing $\langle last-numbered \rangle$ from \CLN . So the new syntax is

```
 | \c COLN \langle info \rangle \langle first-page-line \rangle \{ \langle line \rangle \} \{ \langle page \rangle \} \{ \langle names \rangle \} \langle last-numbered \rangle |
```

```
171 \renewcommand* \@@LN [6]{%

172 \ifx#1\relax

173 \ifx#2\relax\gdef#2{#3}\fi

174 \expandafter\@@@LN\csname #5#6\endcsname#1%
```

```
\xdef#1{\lastLN{#3}\firstLN{#3}%
175
                    \pageLN{#4}{\@LN@column}{#2}\nextLN\relax}%
176
        \else
177
          \def\lastLN##1{\noexpand\lastLN{#3}}%
178
          \xdef#1{#1}%
179
180
        \fi
181
        \xdef#6{#4C\@LN@column}}
182
      \@onlypreamble\@@LN
  lineno.sty's \@@@LN does not need any adjustment.
      lineno.sty's |\langle line \rangle| \{\langle page \rangle\}| is reimplemented as
      \def \@LN {\@FNLN{LN@P}\LastNumberedPage}
183
  —so \QLN really does the same as before, including name spaces.
      \lceil \langle line \rangle \} \{\langle page \rangle \}  is the other special case of the new \backslash QFNLN—an F
  precedes the earlier names, and \FNLN@last@numbered is the storing macro
  initialized above:
      \def \@FLN {\@FNLN{FLN@P}\FNLN@last@numbered}
  For logging, we make both unexpandable:
      % \AtBeginDocument{\let\@LN\relax \let\@FLN\relax}
```

For reading the .aux finally, we do what lineno does with \QLN:

... but this way nothing appears in the file!? TODO ...

\@onlypreamble\@LN \@onlypreamble\@FLN

187 \AtEndDocument{\let\@FLN\@gobbletwo}

2.6.5 Tool for Reusing Global Operations with Macros

lineno.sty v4 provides list handling (changing lists globally) and global changes of \NumberedPageCache. We want to use them in "main text" mode as well as in "footnote" mode. To use such an operation on $\langle ln\text{-}macro\rangle$ for $\langle fln\text{-}macro\rangle$, we \global\let $\langle ln\text{-}macro\rangle\langle fln\text{-}macro\rangle$, apply the operations, and finally \global\let $\langle fln\text{-}macro\rangle\langle ln\text{-}macro\rangle$. However, we are not only interested in how $\langle fln\text{-}macro\rangle$ is changed this way, rather $\langle ln\text{-}macro\rangle$ also is used as input for some operations, and we can choose which $\langle fln\text{-}macro\rangle$ should be used as input. To switch from working on/with $\langle fln\text{-}1\rangle$ to $\langle fln\text{-}2\rangle$ using $\langle ln\text{-}macro\rangle$ with an option to use $\langle fln\text{-}1\rangle$ later again, a tool \GStoreUse $\langle ln\text{-}macro\rangle\langle fln\text{-}1\rangle\langle fln\text{-}2\rangle$ is provided (should render later switchings much better readable):

```
188 \newcommand* \GStoreUse [3]{\global\let#2#1\global\let#1#3}
```

I.e., current content of #1 is stored in #2, then #1 attains the content of #3.

2.6.6 General Settings for Typesetting Stage

Oh my dear, it seems that all the switching for the footnote variant of pagewise must be global (I can't find something useful using \aftergroup quickly). Therefore, I render lineno's \setpagewisenumbers acting globally:

```
189 \renewcommand*\setpagewiselinenumbers{%
190 \global\let \theLineNumber \thePagewiseLineNumber
191 \global\let \c@linenumber \c@pagewiselinenumber
192 \global\let \makeLineNumber \makePagewiseLineNumber
193 }
```

I just force this, hehe ...

194 \setpagewiselinenumbers

As a counterpart to \c@pagelinenumber, \c@footnotelinenumber is reserved for the absolute footnote line numbers:

195 \newcount\c@footnotelinenumber

\FNLN@@cache stores \NumberedPageCache as from "main" mode:

196 \let \FNLN@@cache \NumberedPageCache

\[\FNLN@cache \] stores \NumberedPageCache as from "footnote" mode; its initial content is the counterpart or analogue to \LN@Pfirst:

197 \def \FNLN@cache {\FLN@Pfirst}

```
\[ \FNLN@foot@cache \ and \FNLN@main@cache \ switch \ \NumberedPageCache \:

198 \def \FNLN@foot@cache \ \%

199 \GStoreUse \ \NumberedPageCache \FNLN@cache \ \FNLN@cache \ \$

200 \def \FNLN@main@cache \ \%

201 \GStoreUse \ \NumberedPageCache \ \FNLN@cache \ \FNLN@cache \ \$

\[ \frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{
```

\FNLN@labels will be the counterpart to lineno.sty's \@LN@labellist:

202 \global\let \FNLN@labels \@empty

\FNLN@vadjusts will be the counterpart to lineno's \@LN@vadjustlist:

203 \global\let \FNLN@vadjusts \@empty

Settings for footnote line numbers first resemble \setpagewiselinenumbers; but more changes are needed, and results from main text numbering must be stored. Some of the settings are needed *locally* for generating numbers for labels, collected in \setgetfootnotelinenumbers; for this purpose nothing must be stored explicitly:

204 \newcommand* \setgetfootnotelinenumbers {%

Change of \theLineNumber is omitted as we are reading, not writing a label.

```
205
          \let\c@linenumber\c@footnotelinenumber
     %
            \let\makeLineNumber\makeFootnoteLineNumber
206
  But in fact, \makeFootnoteLineNumber and \makePagewiseLineNumber will
  be the same. The difference is made by the choice of \FNLN@first@numbered
  and \NumberedPageCache for the line range searches.
207
          \let \FNLN@first@numbered \FLN@Pfirst
208
          \let \FNLN@finish \FNLN@add
     }
209
  \setfootnotelinenumbers performs all the settings for typesetting footnotes
  in line numbering mode globally, including storing results from typesetting main
     \newcommand* \setfootnotelinenumbers {%
210
       \globaldefs\@ne
211
  The previous line also renders \setgetfootnotelinenumbers global:
212
          \setgetfootnotelinenumbers
  \theLineNumber is used for \linelabel entries. \thePagewiseLineNumber is
  replaced by \theFootnoteLineNumber:
          \let\theLineNumber\theFootnoteLineNumber
213
  Logging to .aux:
214
          \def \FNLN@log {\string\@FLN}%
  Starting range search: \NumberedPageCache
215
          \FNLN@foot@cache
  Reusing lineno's task list operations:
          \GStoreUse \@LN@labellist \FNLN@@labels \FNLN@labels
216
          \GStoreUse \@LN@vadjustlist \FNLN@@vadjusts \FNLN@vadjusts
217
218
        \globaldefs\z@
  For switching back to "main text mode," again some settings may need a local
  variant—for processing line references from footnotes to main text! This is the
  purpose of \setgetpagewiselinenumbers:
```

\newcommand* \setgetpagewiselinenumbers {%

\let \FNLN@finish

\let \FNLN@first@numbered \LN@Pfirst

\@gobbletwo

220

222

223

}

\unsetfootnotelinenumbers stores the "current" page with footnote lines and loads the "most recent" page with main text lines—and more . . . :

```
224 \newcommand* \unsetfootnotelinenumbers {%
225 \gdef \FNLN@log {\string\@LN}%
226 \FNLN@main@cache
```

Task lists:

```
CStoreUse \@LN@labellist \FNLN@labels \FNLN@dlabels \GStoreUse \@LN@vadjustlist \FNLN@vadjusts \FNLN@vadjusts \globaldefs\@ne \setgetpagewiselinenumbers \globaldefs\z@ \% v0.53 \setpagewiselinenumbers \}

230 \setpagewiselinenumbers
```

\makeFootnoteLineNumber actually only copies \makePagewiseLineNumber, different results are obtained be changing hooks. The command first calls logging—\logtheLineNumber, then generating the "public" line number—\logtLineNumber (which in turn only is a copy of \testNumberedPage in lineno.sty).

232 \@ifdefinable\makeFootnoteLineNumber

233 {\let \makeFootnoteLineNumber \makePagewiseLineNumber}

2.6.7 Logging

\lambda logtheLineNumber is redefined to log both main text and footnote line numbers.

```
234 \def \logtheLineNumber {%

235 \protected@write\@auxout{}{%

236 \FNLN@log{\the\c@linenumber}{\noexpand\the\c@LN@truepage}}}
```

\\[\FNLN@log \] is the hook for the difference, its default expansion \\(\QLN \) is made for main text line numbers:

237 \gdef \FNLN@log {\string\@LN}

2.6.8 "Public" Line Numbers

Fortunately, these commands don't need to know much about name spaces. The interfaces to them are \\NumberedPageCache\)—changing globally—and \\FNLN@first@numbered\. Our \\FNLN@cache\) is initialized by analogy to its counterpart \\NumberedPageCache\((a minute name space change):

238 \def \FNLN@cache {\FLN@Pfirst}

 $\testFirstNumberedPage{\langle integer\rangle}\$ from lineno.sty is modified by replacing \testLNQPfirst only:

```
239
     \renewcommand* \testFirstNumberedPage [1]{%
240
        \ifnum#1>\c@linenumber
           \def\nextLN##1{%
241
              \testNextNumberedPage\FNLN@first@numbered}%
242
243
        \else
           \let\nextLN\@gobble
244
           \def\pageLN{\gotNumberedPage{#1}}%
245
246
        fi
```

\testNumberedPage and \testNextNumberedPage from lineno don't need any modification. \testLastNumberedPage is modified in edfnotes.sty.

\gotNumberedPage just needs a closing hook \FNLN@finish to allow for footnote lines.

```
\renewcommand* \gotNumberedPage [4]{%
247
248
        \oddNumberedPagefalse
        \ifodd \if@twocolumn #3\else #2\fi\relax\oddNumberedPagetrue\fi
249
250
        \advance\c@linenumber\@ne
        \ifcolumnwiselinenumbers
251
           \subtractlinenumberoffset{#1}%
252
        \else
253
254
           \subtractlinenumberoffset{#4}%
        \fi
255
256
        \show\FNLN@finish
        \FNLN@finish{#2}{#3}%
257
     }
258
```

\FNLN@finish{\langle page \rangle} \{\langle column \rangle \}\] gobbles both arguments with main text lines, but will add the number of main text lines to footnote line numbers:

259 \global\let \FNLN@finish \@gobbletwo

Then it will act as \\FNLN@add\\. We run the page info macro for the same page (column; if defined).

```
\newcommand* \FNLN@add [2] {%
260
        \expandafter \let\expandafter \@tempa\csname LN@P#1C#2\endcsname
261
        \ifx\@tempa\relax
262
        \else
263
264
          \advance\c@linenumber\@ne
265
          \ifcolumnwiselinenumbers
266
            \let\firstLN\subtractlinenumberoffset
   ... rather assuming \realpagewiselinenumbers.
267
            \let\pageLN\@gobblethree
```

```
267 \let\pageLN\@gobblethree
268 \else
269 \let\firstLN\@gobble
270 \def\pageLN##1##2##3{\subtractlinenumberoffset{##3}}%
```

```
271 \fi
272 \def\lastLN##1{\subtractlinenumberoffset{-##1}}%
273 \let\nextLN\@gobble
... TODO all needed?
274 \@tempa
275 \fi
276 }
```

2.6.9 Referencing

Now that we are using two separate counters for main text lines and footnote lines (v0.5), correct references to footnote lines using $\label{line1}$ and \ref need further adjustments. lineno.sty's \thePagewiseLineNumber and $\geographicalget{integer}$ are generalized and re-implemented by macros that then serve to implement referring to footnote line numbers.

\theWiseLineNumber{ $\langle trans \rangle$ } leaves a \protected call to a one-parameter macro $\langle trans \rangle$ in the .aux file:

```
277 \newcommand* \theWiseLineNumber [1]{\protect #1{\the\c@linenumber}}
```

\text{\left choice}\f(\left integer)\fig] executes $\langle choice \rangle$ before applying \text{\text{\text{NumberedPage} to } \left integer}\text{\text{-within a local group:}}

```
278 \newcommand* \getwiselinenumber [2]{{%
```

Some wisdom is needed to take account of the current "numbering state" from which \ref was called.

Referring to main text line:

- Unless called from numbered footnote, no extra care is needed.
- If called from numbered footnote, \setgetpagewiselinenumbers and temporary switching of \NumberedPageCache is needed.

Referring to footnote line:

- If called from numbered footnote, no extra care is needed.
- Otherwise, \setgetfootnotelinenumbers and temporary switching of \NumberedPageCache is needed.

```
\int x#1\relax
                               %% to main text
279
          \if@FNLN@sw@
                               %% from footnote
280
            \setgetpagewiselinenumbers
281
            \FNLN@main@cache
282
            \let \FNLN@restore@cache \FNLN@foot@cache
283
          \fi
284
                               %% to footnote
285
286
          \if@FNLN@sw@ \else %% from elsewhere
287
            #1%
```

```
\FNLN@foot@cache
288
            \let \FNLN@restore@cache \FNLN@main@cache
289
          \fi
290
        \fi
291
        \c@linenumber #2\relax\testNumberedPage
292
293
        \thelinenumber
294
        \FNLN@restore@cache
295
     }}
     \let \FNLN@restore@cache \relax
296
```

\text{\getpagewiselinenumber} doesn't need any $\langle choice \rangle$ —we assume that the label was written in the default pagewise mode (but it is difficult, though, \relax is essential!):

297 % \renewcommand* \getpagewiselinenumber {\getwiselinenumber\relax} %!!

2010/12/31, a compatibility problem with ednotes' \newlabel mechanism shows up. ednotes "undefines" \getpagewiselinenumber and restores it only \AtBeginDocument. We must ensure that ednotes will not override our new version of \getpagewiselinenumber. (TODO in my view another motivation to write "ready" numbers without \getpagewiselinenumbers directly.)

We might assume that ednotes (if at all) is loaded directly and loads lineno.sty (that is the usual and recommended way of using ednotes) and that this will happen before followed. But now that we have spent some time understanding the situation, we can deal with the case as well that lineno.sty is loaded first, then followed for situation and then ednotes. (I have assumed earlier that followed is loaded after lineno.sty ...)

```
\AtBeginDocument{%
298
           \def \getpagewiselinenumber {\getwiselinenumber\relax}% sic!
299
          \let \@EN@getpagewiselno \getpagewiselinenumber}
300
  For \ the Pagewise Line Number, \langle trans \rangle is \ getpagewise line number:
      \renewcommand* \thePagewiseLineNumber {%
301
          \theWiseLineNumber\getpagewiselinenumber}
302
   \ensuremath{\mbox{\sc dinteger}}\ considers \ensuremath{\sc dinteger}\ the absolute number
  of a footnote line. The \langle choice \rangle therefore is \setgetfootnotelinenumbers:
303
      \newcommand* \getfootnotelinenumber {%
304
           \getwiselinenumber\setgetfootnotelinenumbers}
  Finally, \theFootnoteLineNumber is how \linelabel refers to a footnote line.
   \theWiseLineNumber is called with \langle trans \rangle being \getfootnotelinenumber:
305
      \newcommand* \theFootnoteLineNumber {%
306
          \theWiseLineNumber\getfootnotelinenumber}
```

2.7 Leaving the Package File

```
307 \endinput
```

3 Acknowledgements

On the texhax mailing list, Boris Veytsman recommended using Victor Eijkhout's $T_{E\!X}$ by Topic to me, and Andrej Lapshin pointed me to David Salomon's work on output routines (TUGboat 1990 and 1994, also available as a book, as Ulrich Dirr tells me). It helped me a lot to read about output routines in these works, beyond the $T_{E\!X}$ book. The abbreviations 'OTR' and 'MVL' are Salomon's.—And recall Christian's work and support by the DFG named at the start of the package file.—And . . . the ideas of how to implement (i) attaching line numbers, (ii) \linelabel, and (iii) numbering lines "pagewise"—so flexibly, compatibly with many other LATEX packages, still are Stephan's . . .

4 VERSION HISTORY

```
v0.1
              2010/12/08 very first, \linelabel works in footnote
308
              SENT TO Christian, problems with "long" footnotes
309
310
              2010/12/08 corr. "manifoot"
     v0.2
311
312
              2010/12/09
                          moving doc. from .tex to here,
313
                          different doc. sectioning;
                           \@footnotetext modified (user feature!);
314
315
                           \@doclearpage NOT modified!; \if@FNLN@placing@
              2010/12/10
                          ignore dummy footnote split;
316
                           \FNLNpar, \AutoPars, \ExplicitPars,
317
                          more on limitations
318
319
              2010/12/11
                          more trying, almost anew ...
              JUST STORED
320
321
322
              2010/12/12 new approach, removed much before proceeding
              2010/12/13
                          -- this was putting \box\footins onto MVL,
323
                          bad with those penalties
324
              JUST STORED
325
326
     v0.4
              2010/12/14
                          another new approach:
327
328
                          typeset footnote on MVL immediately --
329
                          described strategy
              2010/12/15
                          ... continued, choice of hooking into \output
330
                           (...swap...)
331
              2010/12/16
332
                           ... continued; rearranged sections ...
                          \FNLN@@fntext vs. ...ltx...
333
              2010/12/17
                          success with \pagegoal ...; \GStoreReg etc.;
334
335
                           ...@fntext shortened
              2010/12/18
                          another two limitations: \pagebreak in fn.,
336
                          guessed/tested; another note to <register>;
337
338
                          ack. Christian; directed -> organized!?
              SENT TO Christian/Stephan
339
340
              2010/12/19 support of \pagebreak with \if@FNLN@sw@ etc.;
341
     v0.41
```

2.40			TODO on lists of (monistor)s
342		0010/10/00	TODO on lists of <register>s</register>
343		2010/12/20	debugging: \iftrue; \setboxft;
344			\Offinalstrut in vmode exported to finstrut.sty;
345		0010/10/01	notes on how v0.41 still fails with \pagebreak
346		2010/12/21	additional notes on *two* \pagebreak's
347	۰	0040440404	
348	v0.5	2010/12/21	restructuring doc., check@latex@ -> check@,
349		0040440400	own account of lineno's pagewise mode
350		2010/12/22	continued
351		2010/12/23	continued
352		2010/12/24	continued
353		2010/12/25	moved this to pwlineno, replaced
354			more on \FNLN@typeset, + \setfootnotelinenumbers
355		2010/12/26	new summary of implementation,
356			rearranged code sections; logging settled
357	v0.51	2010/12/27	"build" settled, typesetting, logging reformated;
358			ack.s: "recall"; all settings global,
359			"public" works
360		JUST STORED	, MARGINAL NUMBERS OK,
361		\linelabel	in footnote broken
362		[2010/12/28]	
363	v0.52	2010/12/28	own label and vadjust lists for footnotes;
364			local settings for referencing,
365			tool and care for global changes (Cache)
366			(TODO write ready in .aux? needs another run)
367		\linelabel'	s ok, MARGINAL NOTES MAIN BROKEN
368	v0.53	2010/12/28	debugging; OK; minor doc. modifications;
369			<pre>less "limitations"; \\[\smallskipamount]</pre>
370		TO CHRISTIA	N 2010-12-29
371	v0.54	2010/12/31	typo options; \FNLN@text without arg,
372			\getpagewiselinenumber with ednotes
373		2011/01/01	\FNLN@cache, \FNLN@@cache initialized;
374			doc. "Typesetting Stage" qualification
375		2011/01/02	that qualification was wrong
376		2011/01/03	samepage@hook
377		TO CHRISTIA	N SAME DAY
378	v0.55	2011/01/04	<pre>samepage@hook emptied here as well;</pre>
379		2011/01/06	edited version history
380		2011/01/07	note on \if@FNLN@sw@ with v0.5;
381			finally without support for samepage@hook!
382			note on \testLastNumberedPage
383		PART OF EDF	N RELEASE r0.5 (together with edfnotes v0.2)
384	v0.55a	2011/02/09	corr. owner; "Limitations" updated; \pagebreak
385			