NTG Document Class brief for LATEX version 2e

Victor Eijkhout

Johannes Braams

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1 Introduction

This file contains the document class brief that was made available by Working Group 13 of the NTG (Nederlandstalige TEX Gebruikersgroep). It defines more commands than the standard document class letter, but a letter made with the letter document class is still processable with this document class.

2 Initial Code

In this part we define a few comands that are used later on.

This control sequence is used to store the second digit of the pointsize we are typesetting in. So, normally, it's value is one of 0, 1 or 2.

1 (*brief)

2 \newcommand*\@ptsize{}

\if@typhulp This switch is used to decide whether or not to put a small line on the paper that is used to align the paper in a typewriter.

3 \newif\if@typhulp

\if@streepjes A switch to indicate if the 'folding lines' should be printed

 $4 \neq 4$

\if@adresrechts This switch indicates if the addressing information is to be set on the left or on the right side of the letter.

5 \newif\if@adresrechts

\if@elfinch A switch to remember whether we are using A4 or letter paper. (possibly obsolete)
6 \newif\if@elfinch

2.1 Setting Paper Sizes

The variables \paperwidth and \paperheight should reflect the physical paper size after trimming. For desk printer output this is usually the real paper size since there is no post-processing.

```
7 \DeclareOption{a4paper}
     {\setlength\paperheight {297mm}%
      \setlength\paperwidth {210mm}\@elfinchfalse}
10 \DeclareOption{a5paper}
     {\ClassWarning{brief}{Paper size A5 not supported, using A4}%
      \setlength\paperheight {297mm}%
      \setlength\paperwidth {210mm}\@elfinchfalse}
14 \DeclareOption{b5paper}
     {\ClassWarning{brief}{Paper size B5 not supported, using A4}%
      \setlength\paperheight {297mm}%
16
      \setlength\paperwidth {210mm}\@elfinchfalse}
17
18 \DeclareOption{letterpaper}
     {\setlength\paperheight {11in}%
19
      \setlength\paperwidth {8.5in}\@elfinchtrue}
20
21 \DeclareOption{USletter}
     {\setlength\paperheight {11in}%
22
      \setlength\paperwidth {8.5in}\@elfinchtrue}
24 \DeclareOption{legalpaper}
25
     {\ClassWarning{brief}
26
                   {Paper size 'legal' not supported, using 'letter'}%
27
      \setlength\paperheight {14in}%
      \setlength\paperwidth {8.5in}\@elfinchtrue}
28
29 \DeclareOption{executivepaper}
     {\ClassWarning{brief}
```

2.2 Choosing the type size

The type size options are handled by defining \@ptsize to contain the last digit of the size in question and branching on \ifcase statements. This is done for historical reasons to stay compatible with other packages that use the \@ptsize variable to select special actions. It makes the declarations of size options less than 10pt difficult, although one can probably use 9 and 8 assuming that a class wont define both 8pt and 18pt options.

```
34 \DeclareOption{10pt}{\renewcommand*\@ptsize{0}} 35 \DeclareOption{11pt}{\renewcommand*\@ptsize{1}} 36 \DeclareOption{12pt}{\renewcommand*\@ptsize{2}}
```

2.3 Two-side or one-side printing

Two-sided printing was not supported in the LATEX 2.09 version of this document-class.

```
37 \if@compatibility
38 \DeclareOption{twoside}{\@latexerr{No 'twoside' layout for letters}%
39 \@eha}
40 \else
41 \DeclareOption{twoside}{\@twosidetrue \@mparswitchtrue}
42 \fi
43 \DeclareOption{oneside}{\@twosidefalse \@mparswitchfalse}
```

2.4 Draft option

If the user requests draft we show any overfull boxes. We could probably add some more interesting stuff to this option.

```
44 \DeclareOption{draft}{\setlength\overfullrule{5pt}} 45 \DeclareOption{final}{\setlength\overfullrule{0pt}}
```

2.5 Equation numbering on the left

The option lequo can be used to get the equation numbers on the left side of the equation.

```
46 \DeclareOption{legno}{\input{legno.clo}}
```

2.6 Flush left displays

The option fleqn redefines the displayed math environmens in such a way that they come out flush left, with an indentation of \mathindent from the prevailing left margin.

```
47 \DeclareOption{fleqn}{\input{fleqn.clo}}
```

2.7 Typewriter alignment

```
48 \DeclareOption{typhulp}{\@typhulptrue}
49 \DeclareOption{geentyphulp}{\@typhulpfalse}
```

2.8 Folding lines

It is possible to print 'folding lines' on the far right side of the paper.

```
50 \DeclareOption{streepjes}{\@streepjestrue}
51 \DeclareOption{geenstreepjes}{\@streepjesfalse}
```

2.9 Address placement

The address information can be put either on the left or on the right side of the letter

```
52 \DeclareOption{adreslinks}{\@adresrechtsfalse}
53 \DeclareOption{adresrechts}{\@adresrechtstrue}
```

2.10 Support for different languages

In the original document style brief the options to support the various languages were all dutch words. To be compatible with both the old version of the document class and with the recommended set of language options we have at least two options for each language.

First Dutch.

```
54 \end{DeclareOption} \end{DeclareOption} \label{lem:class} \hspace{AtEndOfClass{dutchbrief}} \end{DeclareOption} \hspace{AtEndOfClass{dutchbrief}} \hspace{AtEndOfClass{dutc
55 \DeclareOption{dutch}
                                                                                                                 {\AtEndOfClass{\dutchbrief}}
then British English,
56 \DeclareOption{engels}
                                                                                                                 {\AtEndOfClass{\englishbrief}}
57 \DeclareOption{english}
                                                                                                                 {\AtEndOfClass{\englishbrief}}
American English,
58 \DeclareOption{USengels}
                                                                                                                {\AtEndOfClass{\americanbrief}}
59 \DeclareOption{american}
                                                                                                                {\AtEndOfClass{\americanbrief}}
German
60 \DeclareOption{duits}
                                                                                                                 {\AtEndOfClass{\germanbrief}}
61 \DeclareOption{german}
                                                                                                                 {\AtEndOfClass{\germanbrief}}
and finally french.
62 \DeclareOption{frans}
                                                                                                                 {\AtEndOfClass{\frenchbrief}}
63 \DeclareOption{french}
                                                                                                                 {\AtEndOfClass{\frenchbrief}}
64 \DeclareOption{francais} {\AtEndOfClass{\frenchbrief}}
```

3 Executing Options

Here we execute the default options to initialize certain variables.

65 \ExecuteOptions{a4paper,11pt,oneside,onecolumn,final,%

```
geentyphulp,geenstreepjes,adreslinks,% nederlands}
```

The \ProcessOptions command causes the execution of the code for every option FOO which is declared and for which the user typed the FOO option in his \documentclass command. For every option BAR he typed, which is not declared, the option is assumed to be a global option. All options will be passed as document options to any \usepackage command in the document preamble.

68 \ProcessOptions\relax

Now that all the options have been executed we can define the user-level size changing commands. Their definition depends on which of the 10pt, 11pt or 12pt options was specified.

\normalsize

The user level command for the main size is \normalsize. Internally LATEX uses \@normalsize when it refers to the main size. \@normalsize will be defined to work like \normalsize if the latter is redefined from its default definition (that just issues an error message). Otherwise \@normalsize simply selects a 10pt/12pt size.

The \normalsize macro also sets new values for \abovedisplayskip, \abovedisplayshortskip and

```
69 \ifcase\@ptsize
    \renewcommand*\normalsize{%
71
      \@setfontsize\normalsize\@xpt\@xiipt
      \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
72
      \abovedisplayshortskip \z@ \@plus3\p@
73
      \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
74
      \belowdisplayskip \abovedisplayskip
75
      \let\@listi\@listI}
76
77 \or
    \renewcommand*\normalsize{%
78
      \@setfontsize\normalsize\@xipt{13.6}%
      \abovedisplayskip 11\p0 \@plus3\p0 \@minus6\p0
80
      \abovedisplayshortskip \z@ \@plus3\p@
81
      \belowdisplayshortskip 6.5\p@ \@plus3.5\p@ \@minus3\p@
82
      \belowdisplayskip \abovedisplayskip
83
      \let\@listi\@listI}
84
85 \or
    \renewcommand*\normalsize{%
86
      \@setfontsize\normalsize\@xiipt{15}%
87
      \abovedisplayskip 12\p@ \@plus3\p@ \@minus7\p@
88
      \abovedisplayshortskip \z@ \@plus3\p@
89
      \belowdisplayshortskip 6.5\p@ \@plus3.5\p@ \@minus3\p@
      \belowdisplayskip \abovedisplayskip
      \let\@listi\@listI}
92
93 \fi
```

94 \let\@normalsize\normalsize

We initially choose the normalsize font.

95 \normalsize

We use \MakeRobust instead of \DeclareRobustCommand above to avoid a log entry for the redefinition. But if we are running in a rollback situation (prior to 2015) we don't touch it.

```
96 \ifx\MakeRobust\@undefined \else
```

97 \MakeRobust\normalsize

98\fi

\small This is similar to \normalsize.

```
99 \ifcase\@ptsize
```

```
100 \DeclareRobustCommand\small{%
```

101 \@setfontsize\small\@ixpt{11}%

102 \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@

103 \abovedisplayshortskip \z@ \@plus2\p@

104 \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@

105 \belowdisplayskip \abovedisplayskip}

106 \or

107 \DeclareRobustCommand\small{%

108 \@setfontsize\small\@xpt\@xiipt

109 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@

110 \abovedisplayshortskip \z@ \@plus3\p@

111 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@

112 \belowdisplayskip \abovedisplayskip}

113 \or

114 \DeclareRobustCommand\small{%

115 \@setfontsize\small\@xipt{13.6}%

116 \abovedisplayskip 11\p@ \@plus3\p@ \@minus6\p@

117 \abovedisplayshortskip \z@ \@plus3\p@

118 \belowdisplayshortskip 6.5\p@ \@plus3.5\p@ \@minus3\p@

119 \belowdisplayskip \abovedisplayskip}

120 \fi

\footnotesize This is similar to \normalsize.

121 \ifcase\@ptsize

```
{\tt 122} \quad \verb|\DeclareRobustCommand\footnotesize{\%}| \\
```

123 \@setfontsize\footnotesize\@viiipt{9.5}%

124 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@

125 \abovedisplayshortskip \z@ \@plus\p@

126 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@

127 \belowdisplayskip \abovedisplayskip}

128 \or

129 \DeclareRobustCommand\footnotesize{%

130 \@setfontsize\footnotesize\@ixpt{11}%

132 \abovedisplayshortskip \z@ \@plus\p@

133 \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@

134 \belowdisplayskip \abovedisplayskip}

135 \or

```
\DeclareRobustCommand\footnotesize{%
            136
            137
                    \@setfontsize\footnotesize\@xpt\@xiipt
                    \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
            138
                    \abovedisplayshortskip \z@ \@plus3\p@
            139
            140
                    \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
            141
                    \belowdisplayskip \abovedisplayskip}
            142 \fi
\scriptsize
             These are all much simpler than the previous macros, they just select a new
             fontsize, but leave the parameters for displays and lists alone.
      \tiny
     \large _{143} \ifcase\@ptsize
     \Large 144
                  \DeclareRobustCommand\scriptsize\\Qsetfontsize\scriptsize\\Qviipt\\Qviiipt\
     \LARGE 145
                  \DeclareRobustCommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
                  \DeclareRobustCommand\large{\@setfontsize\large\@xiipt{14}}
      \huge 146
                  \DeclareRobustCommand\Large{\@setfontsize\Large\@xivpt{18}}
      \Huge ^{147}
                  \DeclareRobustCommand\LARGE{\@setfontsize\LARGE\@xviipt{22}}
            148
            149
                  \DeclareRobustCommand\huge{\@setfontsize\huge\@xxpt{25}}
            150
                  \DeclareRobustCommand\Huge{\@setfontsize\Huge\@xxvpt{30}}
            151 \or
                  \DeclareRobustCommand\scriptsize{\@setfontsize\scriptsize\@viiipt{9.5}}
            152
                  \DeclareRobustCommand\tiny{\@setfontsize\tiny\@vipt\@viipt}
            153
                  \DeclareRobustCommand\large{\@setfontsize\large\@xiipt{14}}
            154
                  \DeclareRobustCommand\Large{\@setfontsize\Large\@xivpt{18}}
            155
            156
                  \DeclareRobustCommand\LARGE{\@setfontsize\LARGE\@xviipt{22}}
                  \DeclareRobustCommand\huge{\@setfontsize\huge\@xxpt{25}}
            157
                  \DeclareRobustCommand\Huge{\@setfontsize\Huge\@xxvpt{30}}}
            158
            159 \or
                 \DeclareRobustCommand\scriptsize{\@setfontsize\scriptsize\@viiipt{9.5}}
            160
                  \DeclareRobustCommand\tiny{\@setfontsize\tiny\@vipt\@viipt}
            161
                  \DeclareRobustCommand\large{\@setfontsize\large\@xivpt{18}}
            162
                  \DeclareRobustCommand\Large{\@setfontsize\Large\@xviipt{22}}
            163
                  \DeclareRobustCommand\LARGE{\@setfontsize\LARGE\@xxpt{25}}
            164
            165
                  \DeclareRobustCommand\huge{\@setfontsize\huge\@xxvpt{30}}
            166
                 \let\Huge=\huge
            167 \fi
```

4 Loading Packages

This class file does not load additional packages.

5 Document Layout

In this section we are finally dealing with the nasty typographical details.

5.1 Fonts

We use two fixed fonts in these letters.

```
168 \newfont\refkopfont{cmssq8}
169 \DeclareFixedFont\kleinvet{\encodingdefault}%
                               {\rmdefault}%
170
171
                               {\bfdefault}%
                               {\shapedefault}%
172
                               {7}
173
```

5.2 **Paragraphing**

\lineskip These parameters control TFX's behaviour when two lines tend to come too close \normallineskip together.

> 174 \setlength\lineskip{1\p0} 175 \setlength\normallineskip{1\p0}

\baselinestretch

This is used as a multiplier for \baselineskip. The default is to not stretch the baselines.

176 \renewcommand*\baselinestretch{}

\parskip \parindent

\parskip gives extra vertical space between paragraphs and \parindent is the width of the paragraph indentation. Letters are typeset without paragraph indentation.

```
177 \setlength\parskip{0.7em \@plus .3em \@minus .2em}
178 \setlength\parindent{0\p0}
```

\@lowpenalty The commands \nopagebreak and \nolinebreak put in penalties to discourage \@medpenalty these breaks at the point they are put in. They use \@lowpenalty, \@medpenalty \@highpenalty or \@highpenalty, dependant on their argument.

```
179 \@lowpenalty
                 51
180 \@medpenalty 151
181 \@highpenalty 301
```

\clubpenalty These penalties are use to discourage club and widow lines. Because we use their \widowpenalty default values we only show them here, commented out.

```
182 % \clubpenalty 150
183 % \widowpenalty 150
```

\displaywidowpenalty Discourage (but not so much) widows in front of a math display and forbid break-\predisplaypenalty ing directly in front of a display. Allow break after a display without a penalty. \postdisplaypenalty Again the default values are used, therefore we only show them here.

```
184 \% \displaywidowpenalty 50
185 % \predisplaypenalty
186 % \postdisplaypenalty 0
```

\interlinepenalty Allow the breaking of a page in the middle of a paragraph.

```
187 % \interlinepenalty 0
```

\brokenpenalty We allow the breaking of a page after a hyphenated line.

```
188 % \brokenpenalty 0
```

5.3 Page Layout

All margin dimensions are measured from a point one inch from the top and lefthand side of the page.

5.3.1 Vertical spacing

\headheight \headsep

The \headheight is the height of the box that will contain the running head. The \headsep is the distance between the bottom of the running head and the top of the text. \topskip is the \baselineskip for the first line on a page.

```
189 \setlength\headheight{37mm}
190 \setlength\headsep {0mm}
```

\footskip

The distance from the baseline of the box which contains the running footer to the baseline of last line of text is controlled by the \footskip. Bottom of page:
191 \setlength\footskip{25\p0}

\maxdepth \@maxdepth

The TEX primitive register \maxdepth has a function that is similar to that of \topskip. The register \@maxdepth should always contain a copy of \maxdepth. In both plain TEX and LATEX 2.09 \maxdepth had a fixed value of 4pt; in native LATEX2e mode we let the value depend on the typesize. We set it so that \maxdepth + \topskip = typesize \times 1.5. As it happens, in these classes \topskip is equal to the typesize, therefor we set \maxdepth to half the value of \topskip.

```
192 \if@compatibility
193 \setlength\maxdepth{4\p@}
194 \else
195 \setlength\maxdepth{.5\topskip}
196 \fi
197 \setlength\@maxdepth\maxdepth
```

5.3.2 The dimension of text

\textwidth The dimensions of the text are fixed; they are defined in the NEN norm which this \textheight class implements.

```
198 \end{tabular} \begin{tabular}{l} 199 \end{tabular} $199 \end{tabular} \begin{tabular}{l} 197mm \end{tabular} $200 \end{tabular} $197mm \end{tabular} $199 \end{tabular} $199 \end{tabular} $199 \end{tabular} $199 \end{tabular} $199 \end{tabular} $190 \end{tabular} $199 \end{
```

5.3.3 Margins

```
\oddsidemargin Again, these dimensions are based on the NEN norm.
\evensidemargin 203 \setlength\@tempdima{\paperwidth}
\marginparwidth 204 \addtolength\@tempdima{-2in}
205 \addtolength\@tempdima{-\textwidth}
```

```
\begin{array}{lll} 206 \setlength\oddsidemargin & \{7.6mm\} \\ 207 \setlength\evensidemargin & \{\oddsidemargin\} \\ 208 \setlength\marginparwidth & \{0\p0\} \end{array}
```

\marginparsep \marginparpush

The horizontal space between the main text and marginal notes is determined by \marginparsep, the minimum vertical separation between two marginal notes is controlled by \marginparpush.

```
209 \setlength\marginparsep {0\p0}
210 \setlength\marginparpush{0\p0}
```

\topmargin

\@firstheadheight

The \topmargin is the distance between the top of 'the printable area' -which is 1 inch below the top of the paper- and the top of the box which contains the running head.

211 \setlength\topmargin{-12.4mm}

5.3.4 The address field

The address information has to be put on a specific place.

```
\label{eq:constraint} $$ \operatorname{vensterskip} $$ 212 \enskip $$ 213 \enskip \text{11} \enskip} $$ 214 \enskip \enskip \enskip \enskip \enskip \enskip \enskip \enskip} $$
```

5.3.5 Changing head and text heights

This class has a much higher head on the first page of a letter than on subsequent pages.

```
\verb|\Qotherheadheight|| 215 \verb|\newdimen| Qfirstheadheight||
\verb|\dothertextheight|| 216 \verb|\dotherheadheight||
    \@otherheadsep 217 \newdimen\@othertextheight
      \verb|\dvervolgsep|| 218 \verb|\dvervolgsep|| 218 \verb|\dvervolgsep||
                     219 \newdimen\@vervolgsep
                     220 \setlength\@otherheadsep{2mm}
\@prepareerhoofden
                     221 \def\@prepareerhoofden{%
                           \setlength\@vensterskip{\vensterskip}%
                     222
                           \addtolength\@vensterskip{-50mm}%
                     223
                           \setlength\@firstheadheight{\headheight}%
                     224
                     225
                           \setlength\@otherheadheight{\headheight}%
                           \setlength\@othertextheight{\textheight}%
                     226
                     227
                           }
```

5.3.6 Information in the foot

We also reserve some space at the bottom of the paper to print some information about the sender of the letter.

\footsep The distance between the text and this foot information

228 \newdimen\footsep $229 \text{setlength} footsep{15mm}$

5.3.7 Footnotes

\footnotesep

\footnotesep is the height of the strut placed at the beginning of every footnote. It equals the height of a normal \footnotesize strut in this class, thus no extra space occurs between footnotes.

230 \setlength\footnotesep{12\p0}

\footins

\skip\footins is the space between the last line of the main text and the top of the first footnote.

231 \setlength{\skip\footins}{10\p0 \@plus 2\p0 \@minus 4\p0}

5.4 Page Styles

The page style foo is defined by defining the command \ps@foo. This command should make only local definitions. There should be no stray spaces in the definition, since they could lead to mysterious extra spaces in the output (well, that's something that should be always avoided).

\@evenhead

The \ps@... command defines the macros \@oddhead, \@oddfoot, \@evenhead, \@oddhead and \@evenfoot to define the running heads and feet—e.g., \@oddhead is the \@evenfoot macro to produce the contents of the heading box for odd-numbered pages. It is \@oddfoot called inside an \hbox of width \textwidth.

5.4.1 Marking conventions

To make headings determined by the sectioning commands, the page style defines the commands \chaptermark, \sectionmark, ..., where \chaptermark $\{\langle TEXT \rangle\}$ is called by \chapter to set a mark, and so on.

The \...mark commands and the \...head macros are defined with the help of the following macros. (All the \...mark commands should be initialized to

LATEX extends TeX's \mark facility by producing two kinds of marks, a 'left' and a 'right' mark, using the following commands:

 \mathbf{LEFT} { $\langle RIGHT \rangle$ }: Adds both marks.

 $\mathsf{Markright}(\langle RIGHT \rangle)$: Adds a 'right' mark.

\leftmark: Used in the \@oddhead, \@oddfoot, \@evenhead or \@evenfoot macros, it gets the current 'left' mark. \leftmark works like TEX's \botmark command.

\rightmark: Used in the \@oddhead, \@oddfoot, \@evenhead or \@evenfoot macros, it gets the current 'right' mark. \rightmark works like TEX's \firstmark command.

The marking commands work reasonably well for right marks 'numbered within' left marks—e.g., the left mark is changed by a \chapter command and the right mark is changed by a \section command. However, it does produce somewhat anomalous results if two \markboth's occur on the same page.

Commands like \tableofcontents that should set the marks in some page styles use a \@mkboth command, which is \let by the pagestyle command (\ps@...) to \markboth for setting the heading or to \@gobbletwo to do nothing.

```
232 % %%%\mark{{}{}} % Initializes TeX's marks <--- can vanish
```

5.4.2 Defining the page styles

The pagestyles *empty* and *plain* are defined in the LATEX kernel (ltpage.dtx), but these definitions are changed to a simpler version for this document class.

\ps@headings

The definition of the page style *headings* has to be different for two sided printing than it is for one sided printing.

```
233 \if@twoside
234 \def\ps@headings{%
```

The running feet contain some information about the sender of the letter. The feet aer the same for even and odd pages.

```
235 \def\@oddfoot{\voetregel\hss}%
236 \let\@evenfoot\@oddfoot
```

The running head contains some information about this letter. The head is the same for even and odd pages.

```
237 \def\@oddhead{%
238 \vbox to \@otherheadheight
239 \{\vervolghoofd\vfil
240 \if@streepjes\streepjes{\@firstheadheight}\fi}\hss}
241 \let\@evenhead\@oddhead}
```

For one sided printing we don't need to define \@evenhead so the definition is somewhat simpler.

```
242 \else
243 \def\ps@headings{%
244 \def\@oddfoot{\voetregel\hss}%
245 \def\@oddhead{%
246 \vbox to \@otherheadheight
247 {\vervolghoofd\vfil
248 \if@streepjes\streepjes{\@otherheadheight}\fi}\hss}}
249 \fi
```

\ps@firstpage

On the first page the head contains much more than on other pages, therefore the height of the head and text need to be adapted.

```
250 \def\ps@firstpage{%
                \global\headheight=\@otherheadheight
                \global\textheight=\@othertextheight %?? werkt dit ??
          253
               \global\headsep=\@otherheadsep
                \def\@oddhead{\vbox to \@firstheadheight
          254
                  {\briefhoofd\vfil
          255
                    \if@streepjes\streepjes{\@firstheadheight}\fi}%
          256
                  \hss}
          257
                \def\@evenhead{}
          258
               \def\@oddfoot{\voetregel\hss} \let\@evenfoot\@oddfoot}
\ps@empty
          The definition of the page style empty is simple: No running head or foot at all.
          260 \def\ps@empty{%
                    \let\@oddfoot\@empty\let\@oddhead\@empty
          261
          262
                    \let\@evenfoot\@empty\let\@evenhead\@empty}
\ps@plain
           The definition of the page style plain is again simple.
          263 \def\ps@plain{%}
          264
                    \let\@oddhead\@empty
                    \def\@oddfoot{\normalfont\hfil\thepage}%
          265
                    \def\@evenfoot{\normalfont\hfil\thepage}}
          266
```

6 Document Markup

6.1 Global Declarations

The following declarations, shown with examples, give information about the sender:

- \name{Dr. L. User}: to be used for the return address on the envelope.
- \signature{Larry User} : goes after the closing.
- \address{3245 Foo St.\\Gnu York}: used as the return address in the letter and on the envelope. If not declared, then an institutional standard address is used.
- \location{Room 374} : Acts as modifier to the standard institutional address
- \telephone{(415)123-4567}: Just in case some style puts it on the letter.

```
\name
\fromname 267 \newcommand*\name[1]{\def\fromname{#1}}
268 \def\fromname{}

\ondertekening This macro stores the signature.
\signature 269 \newcommand*\ondertekening[1]{\def\fromsig{#1}}
\fromsig 270 \def\fromsig{}
271 \let\signature\ondertekening
```

```
\address
              272 \newcommand*\address[1] {\maakbriefhoofd*{}{#1}}
    \location
\label{location 273 hewcommand*} $$ \prod_{273 \neq 3} \end{*1} $$ \end{*1}
              274 \def\fromlocation{}
   \telephone
\telephonenum 275 \newcommand*\telephone[1]{\def\telephonenum{#1}}
              276 \def\telephonenum{}
 \makelabels The \makelabels declaration causes mailing labels to be made.
              277 \newcommand*\makelabels{%
               At the beginning of the document, we need to activate the \@mlabel and
               \Ostartlabels commands, as well as write \Ostartlabels to the .aux file.
              278
                    \AtBeginDocument{%
              279
                       \let\@startlabels\startlabels
              280
                       \let\@mlabel\mlabel
                       \if@filesw
              281
                         \immediate\write\@mainaux{\string\@startlabels}\fi}%
              282
               At the end of the document we need to write \clearpage to the .aux file.
                    \AtEndDocument{%
              283
                       \if@filesw\immediate\write\@mainaux{\string\clearpage}\fi}}
              284
               \makelabels is allowed only before the \begin{document} command.
              285 \@onlypreamble\makelabels
```

6.2 The generic letter commands

brief The brief environment creates a new letter, starting from page 1. (The first page is unnumbered.) It has a single argument, which is the addressee and his address, as in

Local declarations, such as \address, can follow the \begin{brief}.

```
286 \newenvironment{brief}[1]
287 {\newpage
288 \if@twoside \ifodd\c@page
289 \else\thispagestyle{empty} \hbox{}\newpage\fi
290 \fi
291 \c@page\@ne
292 \interlinepenalty=200 % smaller than the TeXbook value
```

The $\label{leavevmode}$ and $\label{leavevmode}$ are there for protecting against an empty argument.

293 \@processto{\leavevmode\ignorespaces #1}%

Now we can start filling in the various fields in the references line. First the adressee.

```
294 \@defrefveld{\@Ad}{\geadresseerdetekst}{\toname}
```

Then the date. When nothing was specified we use \vandaag.

Now we can prepare the letterheads. It couldn't be done earlier because the user can specify that he uses a different kind of 'window envelope'.

```
296 \Oprepareerhoofden
```

We may need to adapt the height of the head and the text body on the following pages. Therefore we measure the height of the head on those pages.

```
297 {\setbox\@tempboxa\vervolghoofd
298 \@tempdima\ht\@tempboxa
299 \advance\@tempdima by -\@otherheadheight
300 \ifdim\@tempdima>0\p@
301 \global\advance\@otherheadheight by \@tempdima
302 \global\advance\@othertextheight by -\@tempdima
303 \fi}
```

We have to do the same for the foot of the letter.

```
304 {\setbox\@tempboxa=\vbox{\voetregel}}
305 \global\footskip=\ht\@tempboxa
306 \global\advance\footskip by \footsep}%
307 }
```

The end of the environment possibly writes the address information on the .aux file.

```
308
      {\stopletter\@@par\pagebreak\@@par
309
        \if@filesw
           \begingroup
310
             \left| \cdot \right| = \left| \cdot \right|
311
             \let\protect\@unexpandable@protect
312
             \immediate\write\@auxout
313
314
               {\string\@mlabel{\returnaddress}{\toname\\toaddress}}%
315
           \endgroup
316
        fi
```

1etter The letter environment is a synonime for the brief environment, to provide compatibility with the standard letter document class.

```
317 \let\letter\brief
318 \let\endletter\endbrief
```

\@processto \@processto gets the \toname and \toaddress from the letter environment's \@xproc macro argument. \@xproc and \@yproc are auxiliary macros.

```
\label{longle} $$ \log\left(\frac{\theta}{\theta}\right) = \frac{1\\\theta(0)ifx \cdot \theta - \theta}{320} \le \theta \cdot \theta = \frac{1000}{i} $$ 321 \log\left(\frac{\theta}{\theta}\right) = \frac{11}{2000}\left(\frac{1}{\theta}\right) $$ 322 \log\left(\frac{\theta}{\theta}\right) = \frac{11}{2000}\left(\frac{11}{\theta}\right) $$ 322 \log\left(\frac{\theta}{\theta}\right) = \frac{11}{2000}\left(\frac{11}{\theta}\right) $$ 321 \cos\left(\frac{11}{\theta}\right) = \frac{11}{2000}\left(\frac{11}{\theta}\right) $$ 322 \cos\left(\frac{11}{\theta}\right) = \frac{11}{\theta} $$ 323 \cos\left(\frac{11}{\theta}\right)
```

\antwoordadres

The command \antwoordadres takes the return address as an argument. The various parts of the address should be separated by \\, which will be turned into bullets.

```
323 \newif\if@antwoordadres
324 \newcommand*\antwoordadres[1]{%
     \@antwoordadrestrue\renewcommand*\@antwoordadres{#1}}
326 \newcommand*\@antwoordadres{}
327 \let\replyaddress\antwoordadres
```

The address window

The address for the letter will be placed in such a way that a 'window envelope' can be used to send the letter.

\adresveldbreedte The width of the address window.

328 \newdimen\adresveldbreedte

\adresveld This command formats the address window.

```
329 \newcommand*\adresveld{%
     \hbox{}\kern-\topskip
     \kern\@vensterskip
     \begingroup
```

Compute the width of the address window

```
\if@adresrechts
334
         \setlength\adresveldbreedte{4\refveldbreedte}%
         \addtolength\adresveldbreedte{-76mm}%
335
         \def\@tempa{\moveright 76mm}%
336
337
         \let\@tempa\relax
338
         \setlength\adresveldbreedte{83mm}%
339
340
```

Store the address in a box.

```
\setbox\@tempboxa\vtop{%
341
         \hsize\adresveldbreedte
342
         \@normalsize
343
         \parindent\z@\parskip\z@
344
         \rightskip0\p@\@plus\adresveldbreedte
345
         \let\\\@nobreakcr \toname \\ \toaddress}
346
```

Format the return address if one was given.

```
{\baselineskip\z@\lineskip\z@
347
         \if@antwoordadres
348
            \@tempa\vbox to \z@{%
349
              \hb@xt@\adresveldbreedte{%
350
351
                \kleinvet
                \def\\{\unskip\enspace{\textbullet}\enspace\ignorespaces}%
352
                \@antwoordadres\hfil}
353
              \kern2\p@\hrule \vss}
354
355
         \fi
```

```
Print a small rule as typing aid if required.
```

```
356 \if@typhulp
357 \@tempa\llap{\vbox to \z@{\vskip9mm\streepje\vss}}
358 \fi
```

And finally print the address information. Note that this way of position the box which contains the address information has the advantage that no matter how high or deep the box is, the following information will always be printed in the same spot on the paper.

```
359 \kern9mm \kern-\ht\@tempboxa \@tempdima=\dp\@tempboxa
```

360 \@tempa\box\@tempboxa \kern-\@tempdima

361 \vskip31mm}\endgroup}

6.2.2 The reference line

\refveldbreedte The width of the various fields in this line. It is determined in NEN 3516

```
362 \newdimen\refveldbreedte
```

363 \setlength\refveldbreedte{38mm}

\@defrefveld A macro to help in defining the various fields.

```
364 \ef\@defrefveld#1#2#3{\etbox#1\@refveld{#2}{#3}}
```

\Orefveld The macro \Orefveld stores the formatted field in a box.

```
365 \ensuremath{\mbox{def}\mbox{@refveld#1#2{}}}
```

```
366 \vtop{\hsize\refveldbreedte
```

367 \parskip\z@\parindent\z@

368 \everypar{}%

369 \lineskiplimit\z@\baselineskip12\p@

370 \lineskip\z@

371 \rightskipO\p@ \@plus \refveldbreedte \@minus .5\refveldbreedte

372 \vbox{\refkopfont\baselineskip10\p@#1\@@par}

373 \kern2\p@

374 \strut #2}}

\@UB We allocate four box registers to store the four fields in

 $\QUK 375 \newbox\QUB \newbox\QUK \newbox\QOK \newbox\QDt$

\@OK

\umbriefum The command\umbriefum can be used to show the date of the letter to which your letter is an answer

```
 376 \newcommand*\uwbriefvan[1]{\defrefveld{\QUB}_{\uwbrieftekst}_{\#1}} \\ 377 \let\yourletterof\uwbriefvan
```

\uwkenmerk The command \uwkenmerk can be used to show the reference of the letter to which your letter is an answer

```
378 \end{\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\command*\
```

379 \let\yourreference\uwkenmerk

\onskenmerk Store our reference in a box register.

 $380 \end{*}\onskenmerk[1] {\end{00K}} {\nskenmerktekst} {\#1}} \\$

```
date will be printed. When he doesn't use \datum he will get today's date.
                        381 \newcommand*\datum[1]{\def\@tempa{}\def\@tempb{#1}%
                              \ifx\@tempa\@tempb
                        382
                        383
                                \setbox\@Dt\hbox{ }%
                        384
                              \else
                        385
                                386
                              \{fi\}
                        387 \let\date\datum
       \referentieregel This collects all the information for the reference line.
                        388 \def\referentieregel{\hbox
                                         {\hb@xt@\refveldbreedte{\copy\@UB\hfil}%
                        390
                                          \hb@xt@\refveldbreedte{\copy\@UK\hfil}%
                        391
                                          \hb@xt@\refveldbreedte{\copy\@OK\hfil}%
                                          \hb@xt@\refveldbreedte{\copy\@Dt\hfil}\hss}}
                        392
\vervolgreferentieregel On the second and following pages a simple reference line can be printed. It
                         contains the address information, the date and the page number.
                   \@Ad For this purpose we need to allocate another box register.
                        393 \newbox\@Ad
                        394 \def\vervolgreferentieregel{%
                        395
                              \hbox{%
                                \hb@xt@\refveldbreedte{\copy\@Ad\hfil}%
                        396
                        397
                                \hskip\refveldbreedte
                        398
                                \hb@xt@\refveldbreedte{\copy\@Dt\hfil}%
                                \Orefveld{\bladnummertekst}{\thepage}\hss}}
                        399
                         6.2.3 The headers and footers
            \briefhoofd The headings are empty by default.
          \verb|\vervolghoofd||_{400} \verb|\newcommand*\briefhoofd{} |
                        401 \newcommand*\vervolghoofd{\vbox{}}
        \maakbriefhoofd The usage of this command creates non-empty headers.
                         402 \newcommand*\maakbriefhoofd
                               {\@ifstar {\@kortvervolgbriefhoofd}{\@langvervolgbriefhoofd}}
                        404 \let\makeheader\maakbriefhoofd
\@kortvervolgbriefhoofd This creates a shortened heading for following pages
                        405 \newcommand*\@kortvervolgbriefhoofd[2]{%
                              \@maakbriefhoofd{#1}{#2}
                        406
                              \def\vervolghoofd{%
                        407
                                \vbox{\hsize=4\refveldbreedte
                        408
                                  \hb@xt@\hsize{\Large \normalfont\sffamily #1\strut\hfil}
                        409
                                  \hrule \kern2mm \vervolgreferentieregel}}}
                        410
```

\datum To store the date in a box register. When the user gives an empty argument no

```
\@langvervolgbriefhoofd This creates a long heading for following pages by just using \briefhoofd.
                        411 \newcommand*\@langvervolgbriefhoofd[2]{
                              \@maakbriefhoofd{#1}{#2}
                        413
                              \def\vervolghoofd{%
                        414
                                \vbox{\briefhoofd\vskip2mm
                        415
                                  \vervolgreferentieregel
                         416
                                  \vbox{}}}
       \@maakbriefhoofd This was used in the two preceding macros; it defines \briefhoofd.
                        417 \newcommand*\@maakbriefhoofd[2]{\def\briefhoofd{\%}
                                \vbox{\hsize=4\refveldbreedte
                                  \hb@xt@\hsize{\Large \normalfont\sffamily #1\strut\hfil}
                        419
                        420
                                  \hrule
                                  \moveright 3\refveldbreedte\@refveld{\strut #2}{}
                         421
                                  \vbox{}}}
                        422
           \@voetruimte A box to store the footer in.
                         423 \newbox\@voetruimte
                        424 \setbox\@voetruimte=\hbox{}
           \Qvoetteller We need to know how many items are placed in the footer.
                        425 \newcount\@voetteller
             \voetregel \voetregel just copies the box \@voetruimte.
                        426 \newcommand*\voetregel{\copy\@voetruimte}
              \voetitem A command to add an information field to the footer.
                        427 \newcommand*\voetitem[2]{%
                        428
                              \advance\@voetteller by 1
                              \setbox\@voetruimte\hb@xt@4\refveldbreedte{%
                         430
                                \unhbox\@voetruimte
                         431
                                \ifcase\@voetteller \relax \or \relax \or \hfil \else \hfill
                         432
                                \end{#1}{#2}\hskip0\p0 \onumber 3\refveldbreedte}}
                         433
                        434 \let\footitem\voetitem
                         6.2.4 The little rules
              \streepje A shorthand for one little rule.
                        435 \newcommand*\streepje{\hb@xt@2mm{\rule{2mm}{.1pt}}}
             \streepjes This prints the folding rules
                        436 \newcommand*\streepjes[1]{%
                             \vbox to z@{\%}
                         We have to backup to a position 13mm below the edge of the paper.
                         438
                                \kern-#1\relax
                                \hb@xt@\textwidth{%
                         439
```

```
Then we can print a rule on the left side of the paper, half way down to align for
                                             a perforator.
                                                                  \lap{\perfstreepje\kern24mm}\hfill
                                             The folding rules are printed on the right hand side of the paper.
                                                                  \rlap{\kern24mm\vouwstreepjes}}
                                           441
                                                       \vss}}
                                          Prints a \streepje halfway down the paper. A4 paper is 297 mm high; we start
       \perfstreepje
                                             from a position 13mm below the edge of the paper. Hence the \kern 135mm.
                                          443 \newcommand*\perfstreepje{\vtop{\kern\z@ \kern 135mm \streepje}}
    \vouwstreepjes
                                          This prints two folding rules.
                                          444 \newcommand*\vouwstreepjes{%
                                          445
                                                       \vtop{\kern\z@
                                                                       \kern 95mm %% 108-13
                                          446
                                                                       \streepje %% denk maar dat dit geen dikte heeft
                                           447
                                                                       \kern 45mm %% 155-150
                                           448
                                           449
                                                                       \streepje}}
                                             6.2.5 Page breaking control
            \stopbreaks
                                           450 \newcommand*\stopbreaks{\interlinepenalty \@M
                                                           \def\par{\@@par\nobreak}\let\\=\@nobreakcr
                                                           \let\vspace\@nobreakvspace}
                                          452
  \@nobreakvspace
\verb|\doc| 453 \verb|\doc| are Robust Command Company Compan
            \@nobreakcr 454
                                                           {\@ifstar{\@nobreakvspacex}{\@nobreakvspacex}}
                                          455 \def\@nobreakvspacex#1{%
                                                       \ifvmode
                                          456
                                          457
                                                             \nobreak\vskip #1\relax
                                          458
                                                             \@bsphack\vadjust{\nobreak\vskip #1}\@esphack
                                          459
                                           460
                                           461 \def\@nobreakcr{%
                                           462
                                                       \let\reserved@e\relax
                                                       \let\reserved@f\relax
                                          463
                                                       \vadjust{\nobreak}\@ifstar{\@xnewline}{\@xnewline}}
                                          464
         \startbreaks
                                          465 \det \int \frac{1}{2} \operatorname{def} \frac{1}{2} 
                                                          \interlinepenalty 200\def\par{\@@par\penalty 200\relax}}
                    \opening
                                           Text is begun with the \opening command, whose argument generates the salu-
                                             tation, as in
```

\opening{Dear Henry,}

This should produce everything up to and including the 'Dear Henry,' and a command that follows. Since there's a \vfil at the bottom of every page, it can add vertical fil to position a short letter. It should use the following commands:

- \toname: name part of 'to' address. Will be one line long.
- \toaddress: address part of 'to' address. The lines separated by \\.
- \fromname : name of sender.
- \fromaddress: argument of current \address declaration—null if none. Should use standard institutional address if null.
- \fromlocation: argument of current \location declaration—null if none.
- \telephonenum: argument of current \telephone declaration—null if none.

```
467 \newcommand*\opening[1] {%
468 \thispagestyle{firstpage}%
469 \adresveld
470 \prevdepth=-1000\p@ \vskip-2\p@ %% ????
471 \referentieregel
472 \@dosubject #1\par\nobreak}
```

\@dosubject This prints the subject of the letter if one was specified.

```
473 \def\@dosubject{%
     \ifx\@empty\@subject
474
     \else
475
476
       \par\noindent
477
       \parbox[t]{\textwidth}
478
                  {\Changfrom{\refkopfont \betrefttekst \enspace}%
479
                    \normalfont\rmfamily\ignorespaces \@subject\strut}%
480
       \par
481
     fi
```

\afsluiting \closing

The body of the letter follows, ended by a \afsluiting command, as in

This commands generates the closing matter, and the signature. An obvious thing to do is to use a \parbox for the closing and the signature. Should use the following:

- \fromsig : argument of current \signature declaration or, if null, the \fromname.
- \stopbreaks: a macro that inhibits page breaking.

\afsluiting{Yours truly,}

```
482 \newcommand*\afsluiting[1]{\par\nobreak\vspace{\parskip}%
483 \stopbreaks
484 \ifx\@empty\fromsig
485 \def\ondertekening##1{\def\fromsig{##1}\@afsluiting{#1}}%
```

```
486
                      \else
                         \@afsluiting{#1}%
                 487
                      \fi}
                 489 \let\closing\afsluiting
                 490 \def\open@af{\vtop\bgroup\hsize.3\textwidth \raggedright}
                  The internal command \@afsluiting takes care of printing the closing text.
                 491 \newcommand*\@afsluiting[1]{%
                      \def\en{\strut\egroup\open@af}%
                 492
                      \let\and\en
                 493
                 494
                      \noindent
                 495
                       \parbox{.5\textwidth}{%
                 496
                         \raggedright \ignorespaces #1\\[6\medskipamount]%
                         \leavevmode\open@af \fromsig \strut\egroup}}
                 497
                 Of these three, only \medskipmount is actually used above.
\smallskipamount
  \mdeskipamount 498 %\smallskipamount=.5\parskip
  \bigskipamount 499 \medskipamount=\parskip
                 500 %\bigskipamount=2\parskip
        \betreft The command \betreft (\re) stores the subject of the letter.
             \re 501 \newcommand*\betreft[1]{\def\@subject{#1}}
                 502 \let\onderwerp\betreft
                 503 \let\subject\betreft
                 504 \def\@subject{}
                 505 \let\re\betreft
             \cc After the \closing you can put arbitrary stuff, which is typeset with zero
                  \parindent and no page breaking. Commands designed for use after the clos-
                  ing are:
                    \cc{Tinker\\Evers\\Chance}
                  which produces:
                        Tinker
                         Evers
                         Chance
                  Note the obvious use of \parbox.
                 506 \newcommand*{\cc}[1]{\par\noindent
                      \parbox[t]{\textwidth}{\@hangfrom{\normalfont\ccname: }%
                                            \ignorespaces #1\strut}\par}
        \bijlage
                    \ \left( 2\right) \
                      which produces:
       \bijlagen
           \encl
                    bijlagen: Foo(2)
                              Bar
                 509 \newcommand*\bijlage[1]{%
                      \par\noindent
                      \parbox[t]{\textwidth}{\@hangfrom{\normalfont\bijlagetekst\ }%
```

```
512 \ignorespaces #1\strut}\par}
513 \newcommand*\bijlagen[1]{%
514 \par\noindent
515 \parbox[t]{\textwidth}{\@hangfrom{\normalfont\bijlagentekst\}%
516 \ignorespaces #1\strut}\par}
517 \let\encl\bijlagen
```

\ps The only thing \ps needs to do is call \startbreaks, which allows page breaking again.

518 \newcommand*\ps{\par\startbreaks}

\stopletter The \stopletter command is called by \endletter to do the following:

- Add any desired fil or other material at the end of the letter.
- Define \returnaddress to be the return address for the mailing label. More precisely, it is the first argument of the \mlabel command described below. It should be defined to null if the return address doesn't appear on the labels. Any command, other than \\, that should not be expanded until the \mlabel command is actually executed must be preceded by \protect. Whenever possible, \protect commands in the definition of \returnaddress—it's much more efficient that way. In particular, when the standard return address is used, you should define \returnaddress to something like \protect\standardreturnaddress.

519 \newcommand*\stopletter{}

6.3 Customizing the labels

Commands for generating the labels are put on the .AUX file, which is read in and processed by the \end{document} command. You have to define the following two commands:

- \startlabels: Should reset the page layout parameters if necessary.
- \mlabel{\langle return address \rangle} \{\langle to adress \rangle \} : Command to generate a single label.

\returnaddress

520 \newcommand*\returnaddress{}

\labelcount

521 \newcount\labelcount

\startlabels

The following \startlabels command sets things up for producing labels in two columns of five $2" \times 4-1/4"$ labels each, suitable for reproducing onto Avery brand number 5352 address labels.

522 \newcommand*\startlabels{\labelcount\z@ 523 \pagestyle{empty}%

```
\let\@texttop\relax
524
     \topmargin -50\p@
525
     \headsep \z@
526
527
     \oddsidemargin -35\p@
     \evensidemargin -35\p@
528
529
     \textheight 10in
     \@colht\textheight \@colroom\textheight \vsize\textheight
530
     \textwidth 550\p@
531
532
     \columnsep 26\p@
     \ifcase \@ptsize\relax
533
        \normalsize
534
535
     \or
       \small
536
537
538
       \footnotesize
539
     \fi
     \baselineskip \z@
540
     \lineskip \z@
541
     \boxmaxdepth \z@
542
     \parindent \z@
543
       \twocolumn\relax}
```

\@startlabels is the command name that is written to the .aux file. It is a no-op \@startlabels at first, and defined to be the same as \startlabels in the \begin{document}

545 \let\@startlabels=\relax

544

\mlabel This command prints an address label; it is used when the user specified \makelabels in the preamble of his document. The command \mlabel takes two arguments; the second argument is supposed to be the address; the first argument can be used to print a return address. In this document class we ignore the first argument. Also the labels are supposed to be 2 inch high and 3.6 inch wide. When your address labels have a different width you will have to defined your own \mlabel command.

```
546 \newcommand*\mlabel[2]{%
     \parbox[b][2in][c]{262\p0}{\strut\ignorespaces #2}%
548
```

\@mlabel is written to the .aux file in place of \mlabel. That allows to define it \@mlabel as a no-op per default, and activate it in the \begin{document} hook.

 $549 \ \ensuremath{$19$ \ensuremath{19 \ensuremath{0}}$

6.4 Lists

General List Parameters

The following commands are used to set the default values for the list environment's parameters. See the LATEX manual for an explanation of the meanings of the parameters. Defaults for the list environment are set as follows. First, \rightmargin, \listparindent and \itemindent are set to Opt. Then, for a Kth level list, the command \@listK is called, where 'K' denotes 'i', 'ii', ..., 'vi'. (I.e., \@listiii is called for a third-level list.) By convention, \@listK should set \leftmargin to \leftmarginK.

```
For efficiency, level-one list's values are defined at top level, and \@listi is defined
      \leftmargin
                   to set only \leftmargin.
     \leftmargini
    \verb| leftmarginii 550 \end{tensor} $$ 150 \end{tensor} 
   \leftmarginiii
                   The following three are calculated so that they are larger than the sum of
    \leftmarginiv
                   \labelsep and the width of the default labels (which are '(m)', 'vii.' and 'M.').
     \leftmarginv
                  551 \setlength\leftmarginii {2.2em}
    \leftmarginvi
                  552 \setlength\leftmarginiii {1.87em}
                  553 \setlength\leftmarginiv {1.7em}
                   554 \setlength\leftmarginv {1em}
                   555 \setlength\leftmarginvi {1em}
                   Here we set the top level leftmargin.
                   556 \setlength\leftmargin
                                                {\leftmargini}
        \labelsep \labelsep is the distance between the label and the text of an item; \labelwidth
      \labelwidth is the width of the label.
                   557 \setlength \labelsep {5\p0}
                  558 \setlength \labelwidth{\leftmargini}
                  559 \addtolength\labelwidth{-\labelsep}
                   When the user leaves a blank line before the environment an extra vertical space
       \partopsep
                   of \partopsep is inserted, in addition to \parskip and \topsep.
                   560 \setlength\partopsep{0\p0}
          \topsep Extra vertical space, in addition to \parskip, added above and below list and
                   paragraphing environments.
                   561 \setlength\topsep{.4em}
\@beginparpenalty These penalties are inserted before and after a list or paragraph environment.
  \@endparpenalty They are set to a bonus value to encourage page breaking at these points.
    \@itempenalty This penalty is inserted between list items.
                   562 \Obeginparpenalty -\Olowpenalty
                   563 \@endparpenalty
                                         -\@lowpenalty
                                         -\@lowpenalty
                  564 \@itempenalty
          \@listI \@listI defines top level and \@listi values of \leftmargin, \parsep, \topsep,
          \@listi and \itemsep
                       These values have been taken from the ones in the document class artikel3.
                  565 \def\@listI{\leftmargin\leftmargini
                                  \labelsep.5em%
```

\labelwidth\leftmargin

567

```
\topsep .5\parskip \@plus \p@
                            569
                            570
                                                                       \parsep \z@
                            571
                                                                       \itemsep\parsep}
                            572 \let\@listi\@listI
                               We have to initialise these parameters.
                            573 \@listi
  \@listii Here are the same macros for the higher level lists.
\@listiv 575
                                                                             \labelsep .5em%
     \@listv 576
                                                                             \labelwidth\leftmarginii
                                                                             \advance\labelwidth-\labelsep
  \@listvi 577
                                                                             \topsep -.5\parskip \@plus \p@
                            578
                                                                             \parsep \z@
                            579
                                                                             \itemsep\parsep}
                            580
                            581 \def\@listiii{\leftmargin\leftmarginiii
                            582
                                                                             \labelsep .5em%
                            583
                                                                             \labelwidth\leftmarginiii
                            584
                                                                             \advance\labelwidth-\labelsep
                            585
                                                                             \topsep -.5\parskip \@plus \p@
                                                                             \parsep \z@
                            586
                                                                             \partopsep \z@
                            587
                                                                             \itemsep
                                                                                                            \topsep}
                            588
                            589 \ensuremath{\mbox{\sc def}\mbox{\sc de
                                                                             \labelsep .5em%
                            590
                                                                             \labelwidth\leftmarginiv
                            591
                            592
                                                                             \advance\labelwidth-\labelsep
                                                                             \topsep -.5\parskip \@plus \p@}
                            593
                            594 \def\@listv {\leftmargin\leftmarginv
                                                                             \labelsep .5em%
                            595
                            596
                                                                             \labelwidth\leftmarginv
                            597
                                                                             \advance\labelwidth-\labelsep
                            598
                                                                             \topsep -.5\parskip \@plus \p@}
                            599 \def\@listvi {\leftmargin\leftmarginvi
                                                                             \labelsep .5em%
                            600
                                                                             \labelwidth\leftmarginvi
                            601
                            602
                                                                             \advance\labelwidth-\labelsep
                                                                             \topsep -.5\parskip \@plus \p@}
                            603
```

\advance\labelwidth-\labelsep

568

6.4.2 Enumerate

The enumerate environment uses four counters: enumi, enumii, enumiii and enumiv, where enumN controls the numbering of the Nth level enumeration.

```
\theenumi The counters are already defined in in the LATEX kernel (ltlists.dtx), but their representation is changed here.
\theenumii 604 \renewcommand*\theenumii {\Qarabic\cQenumi} \theenumiv 605 \renewcommand*\theenumii {\Qalph\cQenumii}
```

```
606 \renewcommand*\theenumiii{\@roman\c@enumiii}
                  607 \renewcommand*\theenumiv {\@Alph\c@enumiv}
                  The label for each item is generated by the commands \labelenumi ... \labelenumiv.
      \labelenumi
     \labelenumii 608 \newcommand*\labelenumi {\theenumi.}
    \labelenumiii 609 \newcommand*\labelenumii {(\theenumii)}
     \labelenumiv 610 \newcommand*\labelenumiii{\theenumiii.}
                  611 \newcommand*\labelenumiv {\theenumiv.}
        \p@enumii The expansion of \p@enumN\theenumN defines the output of a \ref command
       \p@enumiii when referencing an item of the Nth level of an enumerated list.
        \p@enumiv _{612} \renewcommand*\p@enumii {\theenumi}
                  613 \renewcommand*\p@enumiii{\theenumi(\theenumii)}
                  614 \renewcommand*\p@enumiv {\p@enumiii\theenumiii}
                   6.4.3 Itemize
      \labelitemi Itemization is controlled by \labelitemi, \labelitemii, \labelitemiii, and
                   \labelitemiv, which define the labels of the various itemization levels: the sym-
     \labelitemii
    \labelitemiii
                   bols used are bullet, bold en-dash, asterisk and centred dot.
     \labelitemiv
                  615 \newcommand*\labelitemi {\labelitemfont \textbullet}
                  616 \newcommand*\labelitemii {\labelitemfont \bfseries \textendash}
                  617 \newcommand*\labelitemiii{\labelitemfont \textasteriskcentered}
                  618 \newcommand*\labelitemiv {\labelitemfont \textperiodcentered}
                  The default definition for \labelitemfont is to reset the font to \normalfont so
   \labelitemfont
                   that always the same symbol is produced regardless of surrounding conditions.
                       A possible alternative would be
                   \renewcommand\labelitemfont{%
                       \fontseries\seriesdefault
                      \fontshape\shapedefault\selectfont}
                   which resets series and shape doesn't touch the family.
                  619 \newcommand\labelitemfont{\normalfont}
                   6.4.4 Description
                  The description environment is defined here – while the itemize and enumerate
      description
                   environments are defined in the LATEX kernel (ltlists.dtx).
                  620 \newenvironment{description}
                  621
                                     {\list{}{\labelwidth\z@ \itemindent-\leftmargin
                  622
                                              \let\makelabel\descriptionlabel}}
                                     {\endlist}
                  623
                  To change the formatting of the label, you must redefine \descriptionlabel.
\descriptionlabel
                  624 \newcommand*\descriptionlabel[1] {\hspace\labelsep
                  625
                                                       \normalfont\bfseries #1}
```

6.5 Defining new environments

6.5.1 Verse

The verse environment is defined by making clever use of the list environment's parameters. The user types \\ to end a line. This is implemented by \let'ing \\ equal \@centercr.

```
626 \newenvironment{verse}
                   {\let\\=\@centercr
627
628
                    \left\{ \left( x \right) \right\}
629
                             \setlength\itemindent{-15\p0}%
                             \setlength\listparindent{\itemindent}%
630
                             \setlength\rightmargin{\leftmargin}%
631
                             \addtolength\leftmargin{15\p0}}%
632
                    \item[]}
633
                   {\endlist}
634
```

6.5.2 Quotation

quotation

The quotation environment is also defined by making clever use of the list environment's parameters. The lines in the environment are set smaller than \textwidth. The first line of a paragraph inside this environment is indented.

```
635 \newenvironment{quotation}
636 {\list{}{\setlength\listparindent{1.5em}%
637 \setlength\itemindent{\listparindent}%
638 \setlength\rightmargin{\leftmargin}}%
639 \item[]}
640 {\endlist}
```

6.5.3 Quote

quote The quote environment is like the quotation environment except that paragraphs are not indented.

```
641 \newenvironment{quote}
642 {\list{}{\setlength\rightmargin{\leftmargin}}%
643 \item[]}
644 {\endlist}
```

6.5.4 Theorem

This document class does not define it's own theorem environemts, the defaults, supplied by LATEX kernel (ltthm.dtx) are available.

6.6 Setting parameters for existing environments

6.6.1 Array and tabular

\arraycolsep The columns in an array environment are separated by 2\arraycolsep.
645 \setlength\arraycolsep{5\p0}

\tabcolsep The columns in an tabular environment are separated by 2\tabcolsep.

646 \setlength\tabcolsep{6\p0}

\arrayrulewidth The width of vertical rules in the array and tabular environments is given by \arrayrulewidth.

647 \setlength\arrayrulewidth{.4\p0}

\doublerulesep The space between adjacent rules in the array and tabular environments is given by \doublerulesep.

648 \setlength\doublerulesep{2\p@}

6.6.2 Tabbing

This controls the space that the \' command puts in. (See LATEX manual for an \tabbingsep explanation.)

649 \setlength\tabbingsep{\labelsep}

6.6.3 Minipage

\@minipagerestore

The macro \@minipagerestore is called upon entry to a minipage environment to set up things that are to be handled differently inside a minipage environment. In the current styles, it does nothing.

\@mpfootins Minipages have their own footnotes; \skip\@mpfootins plays same rôle for footnotes in a minipage as \skip\footins does for ordinary footnotes.

650 \skip\@mpfootins = \skip\footins

6.6.4 Framed boxes

\fboxsep The space left by \fbox and \framebox between the box and the text in it.

\fboxrule The width of the rules in the box made by \fbox and \framebox.

651 \setlength\fboxsep{3\p0} 652 \setlength\fboxrule{.4\p0}

Equation and equarray 6.6.5

\theequation The equation counter will be typeset using arabic numbers.

653 \renewcommand*\theequation{\@arabic\c@equation}

\jot \jot is the extra space added between lines of an equarray environment. The default value is used.

654 % \setlength\jot{3pt}

\Ceqnnum The macro \Ceqnnum defines how equation numbers are to appear in equations. Again the default is used.

655 % \def\@eqnnum{(\theequation)}

6.7 Font changing

Here we supply the declarative font changing commands that were common in IATEX version 2.09 and earlier. These commands work in text mode and in math mode. They are provided for compatibility, but one should start using the \text... and \math... commands instead. These commands are redefined using \@renewfontswitch, a command with three arguments: the user command to be defined; IATEX commands to execute in text mode and IATEX commands to execute in math mode.

```
\rm The commands to change the family.
```

```
\label{lem:command} $$ 656 \DeclareOldFontCommand{\rm}_{normalfont\rmfamily}_{\mathbf{55} \ 657 \DeclareOldFontCommand}_{tt}_{normalfont\tfamily}_{\mathbf{55} \ beclareOldFontCommand}_{tt}_{normalfont\tfamily}_{\mathbf{55} \ beclareOldFontCommand}_{tt}_{normalfont\tfamily}_{\mathbf{55} \ beclareOldFontCommand}_{tt}_{normalfont\tfamily}_{\mathbf{55} \ beclareOldFontCommand}_{tt}_{normalfont\tfamily}_{\mathbf{55} \ beclareOldFontCommand}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{tt}_{normalfont\tfamily}_{t
```

\bf The command to change to the bold series. One should use \mdseries to explicitly switch back to medium series.

```
659 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
```

\sl And the commands to change the shape of the font. The slanted and small caps
\it shapes are not available by default as math alphabets, so those changes do nothing
\sc in math mode. One should use \upshape to explicitly change back to the upright
shape.

```
660 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit} 661 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\relax} 662 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\relax}
```

\cal The commands \cal and \mit should only be used in math mode, outside math mode they have no effect. Currently the New Font Selection Scheme defines these commands to generate warning messages. Therefore we have to define them 'by hand'.

```
663 \DeclareRobustCommand*{\cal}{\@fontswitch{\relax}{\mathcal}} 664 \DeclareRobustCommand*{\mit}{\@fontswitch{\relax}{\mathnormal}}
```

6.8 Footnotes

\footnoterule

Usually, footnotes are separated from the main body of the text by a small rule. This rule is drawn by the macro \footnoterule. We have to make sure that the rule takes no vertical space (see plain.tex) so we compensate for the natural height of the rule of 0.4pt by adding the right amount of vertical skip.

To prevent the rule from colliding with the footnote we first add a little negative vertical skip, then we put the rule and make sure we end up at the same point where we begun this operation.

```
665 \renewcommand*\footnoterule{%
666 \kern-\p@
667 \hrule \@width .4\columnwidth
668 \kern .6\p@}
```

\c@footnote Footnotes are numbered within chapters in the report and book document styles.

669 % \newcounter{footnote}

\@makefntext

The footnote mechanism of LATEX calls the macro \@makefntext to produce the actual footnote. The macro gets the text of the footnote as its argument and should use \@makefnmark to produce the mark of the footnote. The macro \@makefntext is called when effectively inside a \parbox of width \columnwidth (i.e., with \hsize = \columnwidth).

An example of what can be achieved is given by the following piece of T_EX code.

The effect of this definition is that all lines of the footnote are indented by 10pt, while the first line of a new paragraph is indented by 1em. To change these dimensions, just substitute the desired value for '10pt' (in both places) or '1em'. The mark is flushright against the footnote.

In these document classes we use a simpler macro, in which the footnote text is set like an ordinary text paragraph, with no indentation except on the first line of a paragraph, and the first line of the footnote. Thus, all the macro must do is set \parindent to the appropriate value for succeeding paragraphs and put the proper indentation before the mark.

```
670 \long\def\@makefntext#1{%
671 \noindent\hb@xt@\leftmargini{\normalfont\@thefnmark.\hfil}#1}
```

\@makefnmark

The footnote markers that are printed in the text to point to the footnotes should be produced by the macro \@makefnmark.

 $672 \% \end{constraint} $$ 672 \% \end{constraint} $$ ormalfont\end{constraint}.$

6.9 Words

This document class supports a number of languages. All words that will be printed by the class code are stored in commands which can be redefined if you want to use a different language.

\dutchbrief This stores dutch strings.

```
673 \newcommand*\dutchbrief{%
674 \def\uwbrieftekst{Uw brief van}
675 \def\uwkenmerktekst{Uw kenmerk}
676 \def\onskenmerktekst{Ons kenmerk}
```

```
\def\datumtekst{Datum}
               677
                     \def\geadresseerdetekst{Geadresseerde}
               678
                     \def\bladnummertekst{Bladnummer}
               679
                     \def\vandaag{\number\day~\ifcase\month\or
               680
                       januari\or februari\or maart\or april\or mei\or juni\or juli\or
               681
                       augustus\or september\or oktober\or november\or december\fi
               682
                       \space \number\year}
               683
                     \def\betrefttekst{Onderwerp:}
               684
                     \def\ccname{cc}
               685
                     \def\bijlagetekst{Bijlage:}
               686
                     \def\bijlagentekst{Bijlagen:}
               687
                     \def\telefoontekst{telefoon}}
\englishbrief This stores English strings.
               689 \newcommand*\englishbrief{%
               690
                    \def\uwbrieftekst{Your letter of}
               691
                     \def\uwkenmerktekst{Your reference}
                     \def\onskenmerktekst{Our reference}
               692
                     \def\datumtekst{Date}
               693
                     \def\geadresseerdetekst{To}
               694
                     \def\bladnummertekst{Page}
               695
                     \def\vandaag{\ifcase\day\or
               696
               697
                       1st\or 2nd\or 3rd\or 4th\or 5th\or
                       6th\or 7th\or 8th\or 9th\or 10th\or
               698
                       11th\or 12th\or 13th\or 14th\or 15th\or
               699
                       16th\or 17th\or 18th\or 19th\or 20th\or
               700
                       21st\or 22nd\or 23rd\or 24th\or 25th\or
               701
                       26th\or 27th\or 28th\or 29th\or 30th\or
               702
                       31st\fi^{\icolor} if case\month\or
               703
                       January\or February\or March\or April\or May\or June\or
               704
                       July\or August\or September\or October\or November\or December\fi
               705
                       \space \number\year}
               706
                     \def\betrefttekst{Re:}
               707
                     \def\ccname{cc}
               708
               709
                     \def\bijlagetekst{Enclosure:}
                     \def\bijlagentekst{Enclosures:}
                     \def\telefoontekst{telephone}}
\americanbrief This stores American english strings
               712 \newcommand*\americanbrief{%
                    \def\uwbrieftekst{Your letter of}
               713
               714
                     \def\uwkenmerktekst{Your reference}
                     \def\onskenmerktekst{Our reference}
               715
                     \def\datumtekst{Date}
               716
                     \def\geadresseerdetekst{To}
               717
                     \def\bladnummertekst{Page}
               718
               719
                     \def\vandaag{\ifcase\month\or
                       January\or February\or March\or April\or May\or June\or
               720
                       July\or August\or September\or October\or November\or December\fi
               721
               722
                       \space\number\day, \number\year}
```

```
\def\betrefttekst{Re:}
             723
                   \def\ccname{cc}
             724
                   \def\bijlagetekst{Enclosure:}
             725
             726
                   \def\bijlagentekst{Enclosures:}
                   \def\telefoontekst{telephone}}
             727
\germanbrief
             This stores the German versions of the strings.
             728 \newcommand*\germanbrief{%
             729
                    \def\uwbrieftekst{Ihr Brief vom}
             730
                    \def\uwkenmerktekst{Ihr Zeichen}
                    \def\onskenmerktekst{Unser Zeichen}
             731
                    \def\datumtekst{Datum}
             732
                    \def\geadresseerdetekst{An}
             733
                    \def\bladnummertekst{Seite}
             734
             735
                    \def\vandaag{\number\day.~\ifcase\month\or
                      Januar\or Februar\or M\"arz\or April\or Mai\or Juni\or
             736
                      Juli\or August\or September\or Oktober\or November\or Dezember\fi
             737
                      \space\number\year}
             738
                    \def\betrefttekst{Betrifft:}
             739
                    \def\ccname{Kopien an}
             740
             741
                    \def\bijlagetekst{Anlage:}
                    \def\bijlagentekst{Anlagen:}
             742
                    \def\telefoontekst{Telefon}}
             743
\frenchbrief
             And finally to store the french strings
             744 \newcommand*\frenchbrief{%
                    \def\uwbrieftekst{Votre lettre du}
             745
                    \def\uwkenmerktekst{Vos r\'ef\'erences:}
             746
                    \def\onskenmerktekst{Nos r\'ef\'erences:}
             747
                    \def\datumtekst{Date:}
             748
                    \def\geadresseerdetekst{\'A l'attention de}
             749
                    \def\bladnummertekst{Page}
             750
                    \def\vandaag{\number\day\ifnum\day=1$^{er}$\fi
             751
                           ~\ifcase\month\or janvier\or
             752
                            f\'evrier\or mars\or avril\or mai\or juin\or
             753
                            juillet\or ao\^ut\or septembre\or octobre\or
             754
             755
                            novembre\or d\'ecembre\fi \space \number\year}
             756
                    \def\betrefttekst{Objet:}
             757
                    \def\ccname{Copie \'a}
                    \def\bijlagetekst{Pi\'ece jointe:}
             758
                    \def\bijlagentekst{Pi\'eces jointes:}
             759
             760
                    \def\telefoontekst{T\'el\'ephone:}}
```

6.10 Two column mode

\columnsep This gives the distance between two columns in two column mode.

761 \setlength\columnsep{10\p@}

\columnseprule This gives the width of the rule between two columns in two column mode. We have no visible rule.

6.11 The page style

We have *headings* pages in this document class by default. We use arabic pagenumbers.

763 \pagestyle{headings}
764 \pagenumbering{arabic}

6.12 Single or double sided printing

We don't try to make each page as long as all the others.

 $765 \ \text{raggedbottom}$

\@texttop

The document class letter sets \@texttop to \vskip 0pt plus .00006fil on the first page of a letter, which centers a short letter on the page. This class however doesn't want the letter to be centered on the page.

766 \let\@texttop\relax

We always start in one column mode.

767 \onecolumn 768 $\langle / brief \rangle$

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; numbers in roman refer to the code lines where the entry is used.

Symbols	\@beginparpenalty . $\underline{562}$	\@evenhead
\" 736	\@bsphack 459	. 232, 241, 258, 262
\' 746, 747, 753, 755, 760	\@colht 530	\c firstheadheight .
\@@par 308, 372, 451, 466	\@colroom 530	$\dots \dots \underline{215},$
\@Ad $294, \underline{393}, 396$	\@defrefveld	224, 240, 254, 256
\QDt $295, 375,$. 294, 295, 364,	\c 0fontswitch $663,664$
383, 385, 392, 398	376, 378, 380, 385	\Q gobbletwo 549
\QOK 375 , 380, 391	\@dosubject $472, \underline{473}$	\@hangfrom
\QUB 375 , 376, 389	\@eha 39	. 478, 507, 511, 515
\QUK 375 , 378 , 390		\@highpenalty $\underline{179}$
$\@$ adresrechtsfalse . 52	\Qelfinchfalse 9, 13, 17	\@ifstar 403, 454, 464
$\c \c \$	\@elfinchtrue	\@itempenalty $\underline{562}$
\@afsluiting	20, 23, 28, 33	\@kortvervolgbriefhoofd
$\dots 485, 487, 491$	\@endparpenalty \dots $\underline{562}$	
\@antwoordadres	\@eqnnum $\dots \dots \underline{655}$	\@langvervolgbriefhoofd
$\dots 325, 326, 353$	$\ensuremath{\texttt{Qesphack}}$ 459	
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