Standard Letter Document Class for Large Version 2e

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1 Initial Code

In this part we define a few commands 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 (*letter)
- 2 \newcommand\@ptsize{}

1.1 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.

```
3 \DeclareOption{a4paper}
     {\setlength\paperheight {297mm}%
      \setlength\paperwidth {210mm}}
6 \DeclareOption{a5paper}
     {\setlength\paperheight {210mm}%
      \setlength\paperwidth {148mm}}
9 \DeclareOption{b5paper}
     {\setlength\paperheight {250mm}%
11
      \setlength\paperwidth {176mm}}
12 \DeclareOption{letterpaper}
     {\setlength\paperheight {11in}%
13
      \sl \{8.5in\}
14
15 \DeclareOption{legalpaper}
     {\setlength\paperheight {14in}%
16
      \setlength\paperwidth {8.5in}}
17
18 \DeclareOption{executivepaper}
     {\setlength\paperheight {10.5in}%
19
20
      \setlength\paperwidth {7.25in}}
```

The option landscape switches the values of \paperheight and \paperwidth, assuming the dimensions were given for portrait paper.

```
21 \DeclareOption{landscape}
22 {\setlength\Otempdima {\paperheight}%
23 \setlength\paperheight {\paperwidth}%
24 \setlength\paperwidth {\Otempdima}}
```

1.2 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.

25 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}

```
26 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
27 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
```

1.3 Two-side or one-side printing

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

```
28 \if@compatibility
29 \DeclareOption{twoside}{\@latexerr{No `twoside' layout for letters}%
30 \@eha}
31 \else
32 \DeclareOption{twoside}{\@twosidetrue \@mparswitchtrue}
33 \fi
34 \DeclareOption{oneside}{\@twosidefalse \@mparswitchfalse}
```

1.4 Draft option

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

```
35 \end{draft} {\bf \form} \\ 36 \end{draft} {\bf \form} \\ 36 \end{draft} {\bf \form} \\ 36 \end{draft} \\ {\bf \form} \\ 36 \end{draft} \\ {\bf \form} \\ {\bf \form}
```

1.5 Equation numbering on the left

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

```
37 \DeclareOption{leqno}{\input{leqno.clo}}
```

1.6 Flush left displays

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

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

2 Executing Options

Here we execute the default options to initialize certain variables.

```
39 \ExecuteOptions{letterpaper,10pt,oneside,onecolumn,final}
```

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.

```
40 \ProcessOptions
```

Now that all the options have been executed we can load the chosen class option file that contains all size dependant code.

```
41 \input{size1\@ptsize.clo}
```

3 Loading Packages

The standard class files do not load additional packages.

4 Document Layout

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

Paragraphing

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

- 42 \setlength\lineskip{1\p0}
- 43 \setlength\normallineskip{1\p0}

\baselinestretch

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

44 \renewcommand\baselinestretch{}

\parindent

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

- 45 \setlength\parskip{0.7em} 46 \setlength\parindent{0\p0}
- \@lowpenalty \@medpenalty \@highpenalty

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

- 47 \@lowpenalty 51
- 48 \@medpenalty 151
- 49 \@highpenalty 301

\clubpenalty \widowpenalty

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

- 50 % \clubpenalty 150
- 51 % \widowpenalty 150

\displaywidowpenalty \predisplaypenalty \postdisplaypenalty

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

- 52 % \displaywidowpenalty 50
- 53 % \predisplaypenalty
- 54 % \postdisplaypenalty 0

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

 $55 \% \setminus interline penalty 0$

\brokenpenalty

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

56 % \brokenpenalty 0

4.2Page Layout

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

4.2.1 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, its value depends on the size option that was specified. Therefore it is initialized in one of the size1x.clo files.

- 57 \setlength\headheight{12\p0}
- 58 \setlength\headsep {45\p@}

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:

59 \setlength\footskip{25\p0}

4.2.2 The dimension of text

\textwidth

When we are in compatibility mode we have to make sure that the dimensions of the printed area are not different from what the user was used to see.

- 60 \if@compatibility
- 61 \setlength\textwidth{365\p0}

\textheight

Now that we have computed the width of the text, we have to take care of the height. The **\textheight** is the height of text (including footnotes and figures, excluding running head and foot).

- 63 \fi

In native mode we use the dimensions as they were computed by one of the xxpt options, together with one of the ..paper options.

4.2.3 Margins

\oddsidemargin \evensidemargin \marginparwidth The values of \oddsidemargin and \evensidemargin are computed from those of \paperwidth and \textwidth.

- 64 \if@compatibility
- 65 \setlength\oddsidemargin{53pt}
- 66 \setlength\evensidemargin{53pt}
- 67 \setlength\marginparwidth{90pt}
- 68 \else
- 69 \setlength\@tempdima{\paperwidth}
- 70 \addtolength\@tempdima{-2in}
- 71 \addtolength\@tempdima{-\textwidth}
- 72 \setlength\oddsidemargin {.5\@tempdima}
- 73 \setlength\evensidemargin {\oddsidemargin}
- 74 \setlength\marginparwidth {90\p0}
- 75 \fi

\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.

- 76 \setlength\marginparsep {11\p0}
- 77 \setlength\marginparpush{5\p0}

\topmargin

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.

It can now be computed from the values set above.

78 \setlength\topmargin{27pt}

4.2.4 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.

79 \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.

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

4.3 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
\@oddhead
\@evenfoot
\@oddfoot

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

4.3.1 Marking conventions

To make headings determined by the sectioning commands, the page style defines the commands \chaptermark , \chaptermark , ..., where \chaptermark 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 no-ops.)

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

 $\mbox{markboth}{\langle left\rangle}{\langle right\rangle}: \mbox{Adds both marks.} \\ \mbox{markright}{\langle right\rangle}: \mbox{Adds a 'right' mark.}$

\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.

4.3.2 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.

```
81 \if@twoside
82 \def\ps@headings{%
```

The running feet are empty in this page style.

```
83 \let\@oddfoot\@empty\let\@evenfoot\@empty
```

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

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

```
88 \else
89 \def\ps@headings{%
90 \let\@oddfoot\@empty
91 \def\@oddhead{\slshape\headtoname{} \ignorespaces\toname
92 \hfil \@date
93 \hfil \pagename{} \thepage}
94 \fi
```

\ps@empty

The definition of the page style *empty* is simple: No running head or foot at all.

```
95 \def\ps@empty{%

96 \let\@oddfoot\@empty\let\@oddhead\@empty

97 \let\@evenfoot\@empty\let\@evenhead\@empty}
```

\ps@firstpage

The page style firstpage puts the telephone number in the proper place for the letterhead. It should be adapted to site conventions. The size of the number is determined depending on the main size.

```
98 \def\ps@firstpage{%
        \let\@oddhead\@empty
        \def\@oddfoot{\raisebox{-45\p@}[\z@]{%}
100
            \hb@xt@\textwidth{\hspace*{100\p@}%
101
              \ifcase \@ptsize\relax
102
103
                 \normalsize
              \or
104
                 \small
105
              \or
106
107
                 \footnotesize
108
              \fi
            \fromlocation \hfill \telephonenum}}\hss}}
109
```

\ps@plain The definition of the page style plain is again simple.

```
110 \def\ps@plain{%
111         \let\@oddhead\@empty
112         \def\@oddfoot{\normalfont\hfil\thepage\hfil}%
113         \def\@evenfoot{\normalfont\hfil\thepage\hfil}}
```

5 Document Markup

5.1 Global Declarations

\name
\signature
\address
\location
\telephone

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.

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

• \signature{Larry User} : goes after the closing.

```
115 \newcommand*{\signature}[1]{\def\fromsig{#1}}
```

• \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.

```
116 \newcommand*{\address}[1]{\def\fromaddress{#1}}
```

• \location{Room 374} : Acts as modifier to the standard institutional address.

```
117 \newcommand*{\location}[1]{\def\fromlocation{#1}}
```

• \telephone{(415)123-4567}: Just in case some style puts it on the letter.

```
\newcommand*{\telephone}[1]{\def\telephonenum{#1}}
               118
               We make sure that the internal control sequences that are used to store the infor-
    \fromname
     \fromsig mation exist and are empty.
\fromaddress
               119 \name{}
\fromlocation
               120 \signature{}
               121 \address{}
\telephonenum
               122 \location{}
               123 \telephone{}
  \makelabels
               The \makelabels declaration causes mailing labels to be made.
               124 \newcommand*{\makelabels}{%
               At the beginning of the document, we need to activate the \@mlabel and
               \@startlabels commands, as well as write \@startlabels to the .aux file.
               125
                     \AtBeginDocument{%
                        \let\@startlabels\startlabels
               126
                       \let\@mlabel\mlabel
               127
                       \if@filesw
               128
               129
                          \immediate\write\@mainaux{\string\@startlabels}\fi}%
               At the end of the document we need to write \clearpage to the .aux file.
                     \AtEndDocument{%
                       \ifOfilesw\immediate\write\Omainaux{\string\clearpage}\fi}}
               \makelabels is allowed only before the \begin{document} command.
               132 \@onlypreamble\makelabels
```

5.2 The generic letter commands

\endgroup

\fi}

149

150

letter

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

```
\begin{letter}{Sam Jones \\
                  Institute for Retarded Study\\
                  Princeton, N.J.}
Local declarations, such as \address, can follow the \begin{letter}.
133 \newenvironment{letter}[1]
134
     {\newpage
       \if@twoside \ifodd\c@page
135
                    \else\thispagestyle{empty}\null\newpage\fi
136
       \fi
137
       \c@page \@ne
138
139
       \c@footnote \z@
       \interlinepenalty=200 % smaller than the TeXbook value
The \leavevmode and \ignorespaces commands are there for protecting against
an empty argument.
       \@processto{\leavevmode\ignorespaces #1}}
The end of the environment possibly writes the address information on the .aux
file.
142
     {\stopletter\@@par\pagebreak\@@par
143
       \if@filesw
144
          \begingroup
145
            \left| \cdot \right| = \
146
            \let\protect\@unexpandable@protect
147
            \immediate\write\@auxout{%
              \verb|\tring@mlabel{\returnaddress}| $$ \operatorname{\mbox{\tring}} $$ \
148
```

```
\@xproc macro argument. \@xproc and \@yproc are auxiliary macros.
         \@yproc
                  151 \long\def\@processto#1{%
                       \@xproc #1\\@@@%
                  152
                       \ifx\toaddress\@empty
                  153
                  154
                       \else
                  155
                         \@yproc #1@@@%
                  156
                  157 \long\def\0xproc #1\\#2000{\def\toname{#1}\def\toaddress{#2}}
                  158 \long\def\@yproc #1\\#2@@@{\def\toaddress{#2}}
                  5.2.1 Page breaking control
     \stopbreaks
                  When the command \stopbreaks is issued no page breaks should occur until
                  \startbreaks is called.
                  159 \newcommand*{\stopbreaks}{%
                       \interlinepenalty\@M
                  160
                  161
                      \def\par{\@@par\nobreak}%
                  162
                      \let\\\@nobreakcr
                       \let\vspace\@nobreakvspace}
                  These are needed by \stopbreaks
  \nobreakvspace
\@nobreakvspacex
                  164 \verb|\DeclareRobustCommand\\| @nobreakvspace
     \@nobreakcr
                        {\@ifstar\@nobreakvspacex\@nobreakvspacex}
                  165
                  166 \def\@nobreakvspacex#1{%
                       \ifvmode
                  167
                         \nobreak\vskip #1\relax
                  168
                  169
                       \else
                  170
                         \@bsphack\vadjust{\nobreak\vskip #1}\@esphack
                  171
                       \fi}
                  172 \def\@nobreakcr{\@ifstar{\@normalcr*}}\@normalcr*}}
                 This cancels the effect of \stopbreaks.
    \startbreaks
                  173 \newcommand*{\startbreaks}{%
                       \let\\\@normalcr
                  174
                       \interlinepenalty 200%
                  175
                       \longindentation The size of the indent to use before the closing of the letter.
                  177 \newdimen\longindentation
                  178 \longindentation=.5\textwidth
  \indentedwidth The width of the closing of the letter.
                  179 \newdimen\indentedwidth
                  180 \indentedwidth=\textwidth
                  181 \advance\indentedwidth -\longindentation
                  Text is begun with the \opening command, whose argument generates the salu-
        \opening
                  tation, as in
                        \opening{Dear Henry,}
                  This should produce everything up to and including the 'Dear Henry,' and a \par
```

\@processto gets the \toname and \toaddress from the letter environment's

\@processto

command that follows. Since there's a \vfil at the bottom of every page, it can add vertical fill 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.

```
182 \newcommand*{\opening}[1]{\ifx\@empty\fromaddress
183
     \thispagestyle{firstpage}%
184
       {\raggedleft\@date\par}%
185
     \else % home address
186
       \thispagestyle{empty}%
       {\raggedleft\begin{tabular}{10{}}\ignorespaces
187
         \fromaddress \\*[2\parskip]%
188
189
         \@date \end{tabular}\par}%
190
     \fi
     \vspace{2\parskip}%
191
192
     {\raggedright \toname \\ \toaddress \par}%
193
     \vspace{2\parskip}%
     #1\par\nobreak}
194
```

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

```
\closing{Yours truly,}
```

This command 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.

```
195 \newcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
                   196
                        \stopbreaks
                   197
                        \noindent
                        \ifx\@empty\fromaddress\else
                   198
                        \hspace*{\longindentation}\fi
                   199
                        \parbox{\indentedwidth}{\raggedright}
                  200
                             \ignorespaces #1\\[6\medskipamount]%
                  201
                             \ifx\@empty\fromsig
                  202
                                 \fromname
                  203
                             \else \fromsig \fi\strut}%
                  204
                   205
                  Of these three, only \medskipmount is actually used above.
\smallskipamount
  \mdeskipamount
                  206 %\smallskipamount=.5\parskip
  \bigskipamount
                  207 \medskipamount=\parskip
                  208 %\bigskipamount=2\parskip
                  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-
           \encl
                  ing are:
             \ps
                     \cc{Tinker\\Evers\\Chance}
                   which produces:
                         Tinker
                    cc:
                         Evers
                         Chance
                  Note the obvious use of \parbox.
```

```
209 \newcommand*{\cc}[1]{%
210
     \par\noindent
211
     \parbox[t]{\textwidth}{%
       \@hangfrom{\normalfont\ccname: }%
       \ignorespaces #1\strut}\par}
213
  \encl{Foo(2)\\Bar}
which produces:
 encl:
        Foo(2)
        Bar
214 \newcommand*{\encl}[1]{%
     \par\noindent
215
     \parbox[t]{\textwidth}{%
216
       \@hangfrom{\normalfont\enclname: }%
217
218
       \ignorespaces #1\strut}\par}
```

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

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

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

- Add any desired fill 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.

220 $\mbox{newcommand}*{\stopletter}{}$

5.3 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 The return address for the mailing labels can be stored in this macro.

221 \newcommand*{\returnaddress}{}

\labelcount A register to count the labels

222 \newcount\labelcount

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

223 \newcommand*{\startlabels}{\labelcount\z@

224 \pagestyle{empty}%

226 \topmargin -50\p@

227 \headsep \z@

```
\oddsidemargin -35\p@
228
229
     \evensidemargin -35\p@
     \textheight 10in
230
                           \@colroom\textheight \vsize\textheight
231
     \@colht\textheight
     \textwidth 550\p@
232
     \columnsep 26\p@
233
234
     \ifcase \@ptsize\relax
235
       \normalsize
236
     \or
237
        \small
238
     \or
       \footnotesize
239
240
     \baselineskip \z@
241
242
     \lineskip \z@
     \boxmaxdepth \z@
243
244
     \parindent \z@
245
     \twocolumn\relax}
```

\@startlabels

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

246 $\left| \text{startlabels=} \right|$

\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 you will have to define your own \mlabel command.

```
247 \newcommand*{\mlabel}[2]{%
248 \parbox[b][2in][c]{262\p@}{\strut\ignorespaces #2}%
249 }
```

\@mlabel

The macro \@mlabel is written to the .aux file instead of \mlabel. This allows us to make it a no-op by default, and then activate it in the \begin{document} hook.

250 \let\@mlabel=\@gobbletwo

5.4 Lists

5.4.1 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.

\leftmargini \leftmarginii \leftmarginiii \leftmarginiv \leftmarginv

\leftmarginvi

For efficiency, level-one list's values are defined at top level, and $\$ is defined to set only $\$ leftmargin.

The following three are calculated so that they are larger than the sum of **\labelsep** and the width of the default labels (which are '(m)', 'vii.' and 'M.').

```
252 \setlength\leftmarginii {2.2em}
253 \setlength\leftmarginiii {1.87em}
254 \setlength\leftmarginiv {1.7em}
```

251 \setlength\leftmargini {2.5em}

```
255 \setlength\leftmarginv {1em}
                    256 \setlength\leftmarginvi {1em}
                   Here we set the top level leftmargin.
                    257 \setlength\leftmargin
                                                 {\leftmargini}
                   \labelsep is the distance between the label and the text of an item; \labelwidth
        \labelsep
      \labelwidth
                   is the width of the label.
                   258 \setlength \labelsep {5\p0}
                    259 \setlength \labelwidth{\leftmargini}
                   260 \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.
                    261 \setlength\partopsep{0\p0}
                   These penalties are inserted before and after a list or paragraph environment.
\@beginparpenalty
 \@endparpenalty
                   They are set to a bonus value to encourage page breaking at these points.
    \@itempenalty
                   This penalty is inserted between list items.
                    262 \@beginparpenalty -\@lowpenalty
                   263 \setminus \texttt{Qendparpenalty}
                                         -\@lowpenalty
                   264 \@itempenalty
                                          -\@lowpenalty
                   \@listI defines top level and \@listi values of \leftmargin, \parsep, \topsep,
          \@listI
                   and \itemsep
          \@listi
                   265 \def\@listI{\setlength\leftmargin{\leftmargini}%
                                   \setlength\parsep {0\p0}%
                   266
                                   \setlength\topsep {.4em}%
                   267
                                   \setlength\itemsep{.4em}}
                   268
                   269 \let\@listi\@listI
                    We have to initialize these parameters.
                    270 \@listi
         \Clistii Here are the same macros for the higher level lists.
        \@listiii
                   271 \def\@listii {\setlength \leftmargin{\leftmarginii}%
         \@listiv
                   272
                                     \setlength \labelwidth{\leftmarginii}%
                                     \verb|\addtolength| labelwidth{-\labelsep}| \\
          \@listv 273
         \@listvi 274 \def\@listiii{\setlength \leftmargin{\leftmarginiii}%
                   275
                                     \setlength \labelwidth{\leftmarginiii}%
                                     \addtolength\labelwidth{-\labelsep}%
                   276
                                     \setlength \topsep
                   277
                                                              \{.2em\}\%
                                     \setlength \itemsep
                                                             {\topsep}}
                   278
                   279 \def\@listiv {\setlength \leftmargin{\leftmarginiv}%
                                     \setlength \labelwidth{\leftmarginiv}%
                   280
                                     \addtolength\labelwidth{-\labelsep}}
                   281
                   282 \def\@listv {\setlength \leftmargin{\leftmarginv}%
                                     \setlength \labelwidth{\leftmarginv}%
                   283
                                     \addtolength\labelwidth{-\labelsep}}
                   284
                   285 \def\@listvi {\setlength \leftmargin{\leftmarginvi}%
                                     \setlength \labelwidth{\leftmarginvi}%
                   286
                                     \addtolength\labelwidth{-\labelsep}}
                   287
```

5.4.2 Enumerate

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

\theenumii The counters are already defined in the IATEX kernel (ltlists.dtx), but their representation is changed here.

\theenumiii \theenumiv 288 \renewcommand\theenumi{\Qarabic\cQenumi}

```
289 \renewcommand\theenumii{\@alph\c@enumii}
               290 \renewcommand\theenumiii{\@roman\c@enumiii}
               291 \renewcommand\theenumiv{\@Alph\c@enumiv}
               The commands \labelenumi ... \labelenumiv generate the label for each item.
  \labelenumi
 \labelenumii
               292 \newcommand\labelenumi{\theenumi.}
\labelenumiii
               293 \newcommand\labelenumii{(\theenumii)}
 \labelenumiv
              294 \newcommand\labelenumiii{\theenumiii.}
               295 \newcommand\labelenumiv{\theenumiv.}
               The expansion of \p@enumN\theenumN defines the output of a \ref command
    \p@enumii
   \p@enumiii
               when referencing an item of the Nth level of an enumerated list.
    \p@enumiv
               296 \renewcommand\p@enumii{\theenumi}
               297 \renewcommand\p@enumiii{\theenumi(\theenumii)}
               298 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
               5.4.3 Itemize
               Itemization is controlled by \labelitemi, \labelitemii, \labelitemiii, and
 \labelitemi
               \labelitemiv, which define the labels of the various itemization levels: the sym-
\labelitemii
\labelitemiii
               bols used are bullet, bold en-dash, asterisk and centered dot.
 \labelitemiv
               299 \mbox{\newcommand}\labelitemi{\texttextbullet}
               300 \newcommand\labelitemii{\normalfont\bfseries \textendash}
               301 \newcommand\labelitemiii{\textasteriskcentered}
               302 \newcommand\labelitemiv{\textperiodcentered}
               5.4.4 Description
               The description environment is defined here – while the itemize and enumerate
 description
               environments are defined in the LATEX kernel (ltlists.dtx).
               303 \newenvironment{description}
               304
                                  {\list{}{\labelwidth\z@ \itemindent-\leftmargin
               305
                                           \let\makelabel\descriptionlabel}}
               306
                                  {\endlist}
```

\descriptionlabel

To change the formatting of the label, you must redefine \descriptionlabel.

```
307 \newcommand*{\descriptionlabel}[1]{\hspace\labelsep
308 \normalfont\bfseries #1}
```

5.5 Defining new environments

5.5.1 Verse

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.

```
309 \newenvironment{verse}
                   {\let\\=\@centercr
310
                    \list{}{\setlength\itemsep{\z0}%
311
                            \setlength\itemindent{-15\p0}%
312
313
                            \setlength\listparindent{\itemindent}%
314
                            \setlength\rightmargin{\leftmargin}%
                            \addtolength\leftmargin{15\p0}}%
315
                    \item[]}
316
                   {\endlist}
317
```

5.5.2 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.

318 \newenvironment{quotation}
319 {\list{}{\setlength\listparindent{1.5em}%}
320 \setlength\itemindent{\listparindent}%
321 \setlength\rightmargin{\leftmargin}}%
322 \item[]}
323 {\endlist}

5.5.3 Quote

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

324 \newenvironment{quote}
325 {\list{}{\setlength\rightmargin{\leftmargin}}%
326 \item[]}
327 {\endlist}

5.5.4 Theorem

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

5.6 Setting parameters for existing environments

5.6.1 Array and tabular

\arraycolsep T

The columns in an array environment are separated by 2\arraycolsep. 328 \setlength\arraycolsep{5\p0}

\tabcolsep

The columns in an tabular environment are separated by 2\tabcolsep. 329 \setlength\tabcolsep{6\p0}

\arrayrulewidth

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

330 \setlength\arrayrulewidth{ $.4\p0$ }

\doublerulesep

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

331 \setlength\doublerulesep{2\p0}

5.6.2 Tabbing

\tabbingsep

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

332 \setlength\tabbingsep{\labelsep}

5.6.3 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.

 $333 \ \$ = \skip\footins

5.6.4 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.

```
334 \setlength\fboxsep{3\p0}
335 \setlength\fboxrule{.4\p0}
```

5.6.5 Equation and equarray

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

336 \renewcommand\theequation{\@arabic\c@equation}

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

337 % \setlength\jot{3pt}

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

338 % \def\@eqnnum{(\theequation)}

5.7 Font changing

Here we supply the declarative font changing commands that were common in LATEX 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; LATEX commands to execute in text mode and LATEX commands to execute in math mode.

\rm The commands to change the family.

```
\tt 339 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}
```

\sf 340 \DeclareOldFontCommand{\sf}{\normalfont\sffamily}{\mathsf}

341 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}

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

342 \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.

```
343 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
```

- 344 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\relax}
- $345 \end{sc}{\normalfont\scshape}{\relax}$

\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'.

5.8 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.

```
348 \renewcommand\footnoterule{%
349 \kern-\p@
350 \hrule \@width .4\columnwidth
351 \kern .6\p@}

A counter for footnotes.
352 % \newcounter{footnote}
```

\@makefntext

\c@footnote

The footnote mechanism of IATEX 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 TEX 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 flush right against the footnote.

In this document class 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.

```
353 \long\def\@makefntext#1{%
354 \noindent
355 \hangindent 5\p@
356 \hb@xt@5\p@{\hss\@makefnmark}#1}
```

\@makefnmark

The footnote markers that are printed in the text to point to the footnotes should be produced by the macro \@makefnmark. We use the default definition for it.

357 %\def\@makefnmark{\hbox{\$^{\@thefnmark}\m@th\$}}

5.9 Words

\ccname \enclname \pagename \headtoname This document class is for documents prepared in the English language. To prepare a version for another language, various English words must be replaced. All the English words that require replacement are defined below in command names.

```
358 \newcommand*{\ccname}{cc}
359 \newcommand*{\enclname}{encl}
360 \newcommand*{\pagename}{Page}
361 \newcommand*{\headtoname}{To}
```

5.10 Date

\today This macro uses the TeX primitives \month, \day and \year to provide the date of the LATeX-run.

```
362 \newcommand*{\today}{\ifcase\month\or
```

- 363 January\or February\or March\or April\or May\or June\or
- 364 July\or August\or September\or October\or November\or December\fi
- 365 \space\number\day, \number\year}

5.11 Two column mode

\columnsep

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

366 \setlength\columnsep{10\p@}

\columnseprule

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

367 \setlength\columnseprule{0\p0}

5.12 The page style

We have *plain* pages in this document class by default. We use a rabic page numbers.

```
368 \pagestyle{plain}
```

369 \pagenumbering{arabic}

5.13 Single or double sided printing

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

370 \raggedbottom

\@texttop

The document class letter sets \@texttop to \vskip Opt plus .00006fil on the first page of a letter, which centers a short letter on the page. This fil value may have to be changed for other letterheads. This setting has to be done after \raggedbottom is executed, since the latter sets \@texttop to \relax.

 $371 \end{copage=1} vskip \en$

We always start in one column mode.

```
372 \onecolumn
```

 $373 \langle / letter \rangle$

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