## kuthesis.dtx\*

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#### Abstract

Kuthesis.dtx is a style file for the Kettering University Thesis Format for L<sup>A</sup>T<sub>E</sub>X. It is designed to cover most needs that Kettering thesis students have.

### **Preface**

Usage of other styles. You will find traces of other style files sucked in whole-sale by this file. This is not to offend the original owners of those files; I figure that a student adventurous enough to try this file out ought to have all the help they can get. The most flagrant use of this is in the endnote section. Due to the multitude of available files for to do it, I have not added APA-style citing.

**Special note.** This style does not attempt to provide APA-style citing. There are a number of packages out there, of which the most comprehensive is apacite (which has both a LATEX style and a BIBTEX style). However, you'll have to \renewcommand the keyword \bibname, because they define it to have lowercase and use addcontentsline to get around any provisions I may make.

Arthur's thanks. There are three people I wish to thank for help on creating this file. First, Professor Mark Wicks of Kettering University, who answered a good number of my headscratchers. Second, Professor James McDonald of Kettering University, who encouraged me to use IATEX to create my thesis. Finally, my fianceé, Stephanie Rybicki, who was kind enough to give me the kick I needed to get this file documented. It is still somewhat of a crawling horror, though.

Alison's thanks. I'd like to thank Mark Wicks for digging up Arthur's work over a decade after the fact, and Arthur for not thinking it creepy that I contacted him out of the blue regarding this project, and for permitting me to host it on Github and update it for the current thesis specifications.

<sup>\*</sup>This file has version v0.5 last revised 2015/04/15

## 1 Getting Started

#### 1.1 Requirements

This style file requires the setspace, times, helvet, ifthen, and calc packages. With the possible exception of setspace, all of these should be in your TEX distribution.

#### 1.2 Installation

- 1. Make sure the files are in your current working directory and run kuthesis.ins through T<sub>F</sub>X.
- 2. Move the generated files to someplace you'd like them to be. I'm sure there's an official spot.
- 3. If your T<sub>E</sub>X implementation uses a filename database, update it.

#### 1.3 Usage

The use of this file is actually fairly simple, as it acts almost exactly like the report style. Just add the following to your file:

\documentclass[12pt]{kuthesis} % Specifies the document class

Of course, in order to completely make a file fit the Kettering Thesis manual, there is more to do than that. First off, in addition to \title{} and \author{}, you are to define other things. To start with, you must define your department with \department{Computer Engineering}. Then, define your employer with \employer{MAXIMUM WIDGETS}. Finally, define your graduation year with \gdate{2015}. This way, when you use \maketitle, not only will your title page be generated but your disclaimer page will be generated as well.

Next, enclose your preface in the preface environment with \begin{preface} and \end{preface}.

In order to produce the table of contents, list of illustrations, and list of tables, you'll need to do the following.

\singlespacing \tableofcontents\ \listofillustrations

Finally, when it is time to begin the body of your thesis, use \begincontent. Enter chapters as you would for a report. Note that footnotes are not permitted; use \endnote with a \theendnotes at the end of each chapter.

Creating a glossary will require you to \setcounter{secnumdepth}{-1} before the glossary and \setcounter{secnumdepth}{0} afterwards. Declare appendicies with \appendix before chapter names, but note that a single appendix will have to be done by hand.

### 1.4 Using apacite with kuthesis.cls

Just use the following code, and do citations as normal. Naturally, don't forget to use the apacite package in your preamble.

```
\begin{singlespace}
\bibliographystyle{apacite}
\bibliography{thesis}
\end{singlespace}
```

### 2 Source Code Examination and Discussion

This source code is based heavily on the report style source code. Therefore, I will focus more on commenting on changes and interesting properties.

```
1 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
```

2 \ProvidesClass{kuthesis}[2015/04/15 Kettering University Thesis class definition]

We must double space almost everything and put it in 12 pt Times New Roman. In certain cases, Helvetica may be needed. Since we will still occasionally need to single space things, we simply use the setspace package.

```
3 \RequirePackage{setspace}
4 \RequirePackage{times}
5 \RequirePackage{helvet}
6 \RequirePackage{ifthen}
7 \RequirePackage{calc}
8 \RequirePackage{etoolbox}
```

There are spots in this file where options remain that aren't useful. Paper sizes are one of these things. One of these days perhaps someone will rip it out, but I'm not too willing to risk yet another style change.

```
9 \newcommand\@ptsize{}
10 \newif\if@restonecol
11 \newif\if@titlepage
12 \@titlepagetrue
13 \newif\if@openright
14 \if@compatibility\else
15 \DeclareOption{a4paper}
     {\setlength\paperheight {297mm}%
16
      \setlength\paperwidth {210mm}}
17
18 \DeclareOption{a5paper}
     {\setlength\paperheight {210mm}%
19
      \setlength\paperwidth {148mm}}
20
21 \DeclareOption{b5paper}
     {\setlength\paperheight {250mm}%
22
      \setlength\paperwidth {176mm}}
23
24 \DeclareOption{letterpaper}
25
     {\setlength\paperheight {11in}%
      \setlength\paperwidth {8.5in}}
```

```
27 \DeclareOption{legalpaper}
            {\setlength\paperheight {14in}%
28
               \setlength\paperwidth {8.5in}}
29
30 \DeclareOption{executivepaper}
            {\setlength\paperheight {10.5in}%
31
              \setlength\paperwidth {7.25in}}
33 \DeclareOption{landscape}
            {\setlength\@tempdima
34
                                                                      {\paperheight}%
               \setlength\paperheight {\paperwidth}%
35
               \setlength\paperwidth {\@tempdima}}
36
37 \fi
38 \if@compatibility
         \renewcommand\@ptsize{0}
40 \ensuremath{\setminus} else
41 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
42 \fi
43 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
44 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
45 \if@compatibility\else
46 \DeclareOption{oneside}{\@twosidefalse \@mparswitchfalse}
48 \DeclareOption{twoside}{\@twosidetrue \@mparswitchtrue}
49 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
50 \if@compatibility\else
51 \DeclareOption{final}{\setlength\overfullrule{Opt}}
52 \fi
53 \DeclareOption{titlepage}{\@titlepagetrue}
54 \if@compatibility\else
55 \label{lem:condition} \begin{tabular}{l} 155 \label{l} \begin{tabular}{l} \begin{ta
56 \fi
57 \if@compatibility
58 \ensuremath{\setminus} \texttt{else}
59 \DeclareOption{openright}{\@openrighttrue}
60 \DeclareOption{openany}{\@openrightfalse}
61 \fi
62 \if@compatibility\else
63 \DeclareOption{onecolumn}{\@twocolumnfalse}
64 \fi
65 \DeclareOption{twocolumn}{\@twocolumntrue}
66 \DeclareOption{leqno}{\input{leqno.clo}}
67 \DeclareOption{fleqn}{\input{fleqn.clo}}
68 \DeclareOption{openbib}{%
          \AtEndOfPackage{%
69
            \renewcommand\@openbib@code{%
70
71
                   \advance\leftmargin\bibindent
72
                   \itemindent -\bibindent
73
                   \listparindent \itemindent
74
                   \parsep \z@
                   }%
75
            \renewcommand\newblock{\par}}%
76
```

```
77 }
```

The following options are what you get if you do not specify any options in the class definition. It is designed to produce a thesis the way the university wants to see it.

```
78 \ExecuteOptions{letterpaper,12pt,oneside,onecolumn,final,openany}
 79 \ProcessOptions
 80 \input{size1\@ptsize.clo}
 To produce output with the desired line spacing, the argument of \spacing should
 be multiplied by 5/6 = 0.8333, so that 1\frac{1}{2} spacing corresponds to \spacing{1.5}
 and double spaced is \spacing{1.66}.
 81 \def \normalspacing{1.25} % default line spacing
 82 \setlength\lineskip{1\p0}
 83 \setlength\normallineskip\{1\p0\}
 84 \renewcommand\baselinestretch{}
 85 \setlength\parskip{0\p0 \@plus \p0}
 86 \@lowpenalty
                   51
 87 \@medpenalty 151
 88 \@highpenalty 301
 89 \setcounter{topnumber}{2}
 90 \renewcommand\topfraction{.7}
 91 \setcounter{bottomnumber}{1}
 92 \renewcommand\bottomfraction{.3}
 93 \setcounter{totalnumber}{3}
 94 \renewcommand\textfraction{.2}
 95 \renewcommand\floatpagefraction{.5}
 96 \setcounter{dbltopnumber}{2}
 97 \renewcommand\dbltopfraction{.7}
 98 \renewcommand\dblfloatpagefraction{.5}
 99 \if@twoside
100
     \def\ps@headings{%
101
         \let\@oddfoot\@empty\let\@evenfoot\@empty
102
         \def\@evenhead{\thepage\hfil\slshape\leftmark}%
         \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
103
         \let\@mkboth\markboth
104
       \def\chaptermark##1{%
105
         \markboth {\MakeUppercase{%
106
            \ifnum \c@secnumdepth >\m@ne
107
                \@chapapp\ \thechapter. \ %
108
            \fi
109
           ##1}}{}}%
110
       \def\sectionmark##1{%
111
112
         \markright {\MakeUppercase{%
            \ifnum \c@secnumdepth >\z@
113
              \thesection. \ %
114
            \fi
115
           ##1}}}
116
117 \else
     \def\ps@headings{%
```

```
\let\@oddfoot\@empty
119
       \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
120
       \let\@mkboth\markboth
121
       \def\chaptermark##1{%
122
         \markright {\MakeUppercase{%
123
124
           \ifnum \c@secnumdepth >\m@ne
125
               \@chapapp\ \thechapter. \ %
126
           \fi
127
           ##1}}}
128 \fi
129 \def\ps@myheadings{%
       \let\@oddfoot\@empty\let\@evenfoot\@empty
130
       \def\@evenhead{\thepage\hfil\slshape\leftmark}%
131
       \def\@oddhead{{\slshape\rightmark}\hfil\thepage}%
132
       \let\@mkboth\@gobbletwo
133
       \let\chaptermark\@gobble
134
       \let\sectionmark\@gobble
135
       }
136
Items required for the title page.
137 \newcommand{\employer}[1]{\ifx\empty#1\else\gdef\@employer{#1}\fi}
139 \renewcommand{\author}[1]{\ifx\empty#1\else\gdef\@author{#1}\fi}
140 \renewcommand{\title}[1]{\ifx\empty#1\else\gdef\0title{#1}\fi}
141 \end{\gdate} [1] {\ifx\neq pty#1\leq gdef @gdate{#1}\fi}
142
143 \global\def\@employer{\mbox{}}
144 \global\def\@degree{\mbox{}}
145 \global\def\@author{\mbox{}}
146 \global\def\@title{\mbox{}}
147 \global\def\@gdate{\number\date} % Default date is current date
Here \maketitle is changed to follow the KU guidelines. It includes its own
disclaimer page. The \maketitle command takes one argument to specify what
type of title page to generate.
148 \newcommand{\maketitle}[1][coop]
149 {
150 \begin{titlepage}
151
      \setcounter{page}{1}
Set the line spacing to 1 for the title page.
      \begin{spacing}{1}
152
      \begin{center}
153
154
         \mathbb{m} 
         \textbf{\MakeUppercase{\@title}}\\
155
         \vspace{2em}
156
         \ifstrequal{#1}{coop}
157
         {A Co-op Thesis written for \\
158
          \vspace{1em}
159
160
          \textbf{\@employer} \\}
161
         {}
```

```
162
        \ifstrequal{#1}{research}
        {A Research Thesis written for \
163
         \vspace{1em}
164
         \textbf{KETTERING UNIVERSITY} \\}
165
        {}
166
167
        \ifstrequal{#1}{pp}
168
        {A Professional Practice Thesis written for \
         \vspace{1em}
169
         \textbf{\@employer} \\}
170
        {}
171
        \ifstrequal{#1}{eship}
172
        {An E-Ship Thesis written by \\
173
174
         \vspace{1em}
         \textbf{\MakeUppercase{{\@author}}} \\}
175
176
        \vspace{1em}
177
        and submitted to \
178
        \vspace{1em}
179
180
        \textbf{KETTERING UNIVERSITY} \\
181
        \vspace{3em}
        in partial fulfillment \\
182
        of the requirements for the \
183
        degree of \\
184
        \vspace{1em}
185
        \textbf{BACHELOR OF SCIENCE IN \MakeUppercase{\@department}} \\
186
187
        \vspace{3em}
        \ifstrequal{#1}{eship}
188
189
        {}
        {by \\
190
         \vspace{1em}
191
         \label{thm:linear_case} $$ \operatorname{\mathbb{M}}(\mathcal{L}^{2}) = \mathbb{C}^{0}. $$
192
193
        }
194
        \vspace{1em}
        {\@gdate} \\
195
196
        \vfill
197
     \end{center}
198
     \begin{flushright}
199
200
201
202
     \begin{tabular}{0{}1}
     \\ \hline
203
     Student
                11
204
205
     11
206
     207
208 \ \texttt{faculty Thesis Advisor} \\
209 \ifstrequal{#1}{pp}{Company Liaison~~~~~~~~~}{}%
210 \ifstrequal{#1}{eship}{Faculty Thesis Advisor $\mathbb{Z}_{20} \to \mathbb{Z}_{20}  \\
211
     //
```

```
\\ \hline
212
            \ifstrequal{#1}{coop}{Faculty Thesis Advisor}{}%
213
214 \ifstrequal{#1}{research}{Committee Member}{}%
215 \ifstrequal{#1}{pp}{Faculty Thesis Advisor}{}%
216 \ifstrequal{#1}{eship}{Committee Member}{} \\
217
            \end{tabular}
218
219
220
            \end{flushright}
            \end{spacing}
221
            \end{titlepage}
222
223
             \setcounter{page}{2}
             \setcounter{secnumdepth}{-1}
224
225
226
            \chapter{DISCLAIMER}
227
            \begin{doublespace}
             \par
228
              This thesis is being submitted as partial fulfillment of the
229
230
              graduation requirements of Kettering University needed
231
              to obtain a Bachelor of Science in {\@department} Degree.
232
              The conclusions and opinions expressed in this thesis are those
233
              of the student author and do not necessarily represent the position
234
               of Kettering University or anyone else affiliated with this
235
236
               culminating undergraduate experience.
237
             \end{doublespace}
238 }%\maketitle
240 \newcommand*\chaptermark[1]{}
 Chapters are the only numbered objects, and they use Roman numerals. Roman
 numerals are set below.
241 \setcounter{secnumdepth}{0}
242 \setcounter{secnumdepth}{0}
243 \newcounter {part}
244 \newcounter {chapter}
245 \newcounter {section}[chapter]
246 \newcounter {subsection}[section]
247 \newcounter {subsubsection}[subsection]
248 \newcounter {paragraph}[subsubsection]
249 \newcounter {subparagraph}[paragraph]
250 \renewcommand \thepart {\@Roman\c@part}
251 \renewcommand \thechapter {\@Roman\c@chapter}
253 \renewcommand \the subsection {\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\colored{\c
254 \renewcommand\thesubsubsection{\thesubsection .\@arabic\c@subsubsection}
255 \renewcommand\theparagraph
                                                                {\thesubsubsection.\@arabic\c@paragraph}
257 \newcommand\@chapapp{\chaptername}
258 \newcommand\part{%
```

```
259
                \if@openright
                       \cleardoublepage
260
                \else
261
                      \clearpage
262
                \fi
263
264
                \thispagestyle{plain}%
265
                \if@twocolumn
                       \onecolumn
266
267
                       \@tempswatrue
                \else
268
                       \@tempswafalse
269
                \fi
270
271
                \left\langle \right\rangle 
272
                \secdef\@part\@spart}
273
274 \left[ 1] #2 %
                      \ifnum \c@secnumdepth >-2\relax
275
                             \refstepcounter{part}%
276
                             \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
277
278
                             \addcontentsline{toc}{part}{#1}%
279
                       \fi
280
                       \markboth{}{}%
281
                       {\centering
282
                         \interlinepenalty \@M
283
284
                          \normalfont
285
                          \ifnum \c@secnumdepth >-2\relax
                                 \huge\bfseries \partname~\thepart
286
                                \par
287
                                \vskip 20\p0
288
                          \fi
289
290
                          \Huge \bfseries #2\par}%
291
                       \@endpart}
292 \def\@spart#1{%
293
                       {\centering
                          \interlinepenalty \@M
294
                          \normalfont
295
                          \Huge \bfseries #1\par}%
296
297
                       \@endpart}
298
           \def\@endpart{\vfil\newpage
299
                                                       \if@twoside
300
                                                             \null
                                                             \t \
301
                                                             \newpage
302
303
                                                       \fi
304
                                                       \if@tempswa
305
                                                            \twocolumn
                                                      \fi}
306
307 \verb|\command\chapter{\clear} double page\else\clear page\fine the command command compared to the compared to the compared to the compared to the command compared to the compared
                                                                         \thispagestyle{plain}%
308
```

```
\global\@topnum\z@
309
                         \@afterindentfalse
310
                         \secdef\@chapter\@schapter}
311
 We put a period after the chapter number in the table of contents. (e.g. I.
INTRODUCTION)
312 \def\@chapter[#1]#2{\ifnum \c@secnumdepth >\m@ne
                               \refstepcounter{chapter}%
313
314
                               \typeout{\@chapapp\space\thechapter.}%
315
                               \addcontentsline{toc}{chapter}%
                                          {\protect\numberline{\thechapter\@.}\MakeUppercase{#1}}%
316
317
                         \else
                            \addcontentsline{toc}{chapter}{\MakeUppercase{#1}}%
318
319
                         \fi
                         \chaptermark{#1}%
320
                         \if@twocolumn
321
                           \@topnewpage[\@makechapterhead{#2}]%
322
                         \else
323
                           \@makechapterhead{#2}%
324
325
                           \@afterheading
326
 We do simplistic Chapter Headers. Note that these fix the table of contents as
 well.
327 \def\@makechapterhead#1{%
328
     \vspace*{1in}%
     {\parindent \z@ \centering \normalfont
329
330
        \ifnum \c@secnumdepth >\m@ne
331
            \bfseries \thechapter.\enspace
332
        \bfseries\MakeUppercase{#1}\par\nobreak
333
        \wedge 40\p0
334
335
     }}
336 \def\@makeschapterhead#1{%
337
     \vspace*{1in}%
338
     {\parindent \z@ \centering
339
        \normalfont
        \interlinepenalty\@M
340
341
        \bfseries\MakeUppercase{#1}\par\nobreak
342
        \wedge 40\p0
343
344 \def\@schapter#1{\if@twocolumn
                        \@topnewpage[\@makeschapterhead{#1}]%
345
                      \else
346
                        \@makeschapterhead{#1}%
347
348
                        \@afterheading
349
                      fi
The format requires underlined section headers.
350 \mbox{ }\mbox{\command\section}{1}{0mm}\mbox{\command\section}{1}{0mm}\mbox{\command\section}{1}
351
                                           {3.5ex \parbox{0plus 1ex \parbox{0minus .2ex}}\%}
```

```
{2.3ex \@plus.2ex}%
352
                                      {\raggedright\normalsize\bfseries\underline}}%
353
354 \mbox{ newcommand\subsection}{0startsection{subsection}{2}{0mm}%
                                       {3.25ex\position{20}{0}} 1ex \partial minus .2ex}%
355
356
                                       {1.5ex \@plus .2ex}%
357
                                       {\normalfont\normalsize\bfseries\underline}}%
   \newcommand\subsubsection{\@startsection{subsubsection}{3}{0mm}%
358
359
                                       {3.25ex\plus 1ex \plus .2ex}%
                                       {1.5ex \mathbb{Q}lus .2ex}%
360
                                       {\normalfont\normalsize\bfseries\underline}}%
361
363
                                      {3.25ex \@plus1ex \@minus.2ex}%
                                      {-1em}%
364
                                      {\normalfont\normalsize\bfseries}}
365
366 \mbox{ $$\mbox{$newcommand\subparagraph}{5}{\parindent}\% $} \label{thm:command} $$
                                         367
                                         {-1em}%
368
                                        {\normalfont\normalsize\bfseries}}
369
370 \if@twocolumn
     \setlength\leftmargini {2em}
     \setlength\leftmargini {2.5em}
373
374\fi
375 \leftmargin \leftmargini
376 \setlength\leftmarginii {2.2em}
377 \setlength\leftmarginiii {1.87em}
378 \setlength\leftmarginiv {1.7em}
379 \if@twocolumn
     \setlength\leftmarginv {.5em}
380
     \setlength\leftmarginvi {.5em}
381
382 \else
     \setlength\leftmarginv {1em}
383
384
     \setlength\leftmarginvi {1em}
385 \fi
386 \setlength \labelsep {.5em}
387 \setlength \labelwidth{\leftmargini}
388 \addtolength\labelwidth{-\labelsep}
389 \@beginparpenalty -\@lowpenalty
390 \@endparpenalty
                    -\@lowpenalty
391 \@itempenalty
                    -\@lowpenalty
392 \renewcommand\theenumi{\@arabic\c@enumi}
393 \renewcommand\theenumii{\@alph\c@enumii}
395 \renewcommand\theenumiv{\@Alph\c@enumiv}
396 \newcommand\labelenumi{\theenumi.}
397 \newcommand\labelenumii{(\theenumii)}
398 \newcommand\labelenumiii{\theenumiii.}
399 \newcommand\labelenumiv{\theenumiv.}
400 \renewcommand\p@enumii{\theenumi}
```

401 \renewcommand\p@enumiii{\theenumi(\theenumii)}

```
402 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
403 \newcommand\labelitemi{\textbullet}
404 \newcommand\labelitemii{\normalfont\bfseries \textendash}
405 \verb|\newcommand\labelitemiii{\textasteriskcentered}|
406 \newcommand\labelitemiv{\textperiodcentered}
407 \newenvironment{description}
408
                   {\singlespacing\begin{list}{}{%
                    \renewcommand{\makelabel}[1]{\normalfont ##1:\hfil}%
409
                    \setlength{\labelwidth}{1.5 in}%
410
                    \setlength{\leftmargin}{\labelwidth+\labelsep}}}
411
                   {\end{list}\doublespacing}
412
413 \newcommand*\descriptionlabel[1]{\hspace\labelsep
                                      \normalfont #1:\hfil}
414
415 \newenvironment{preface}
416 {
417 \setcounter{secnumdepth}{-1}
418 \chapter{\prefacename}\begin{doublespacing}
419 }
420 {\end{doublespacing}\setcounter{secnumdepth}{0}}
421 \newenvironment{verse}
                   {\let\\\@centercr
422
423
                    \list{}{\itemsep
                                           \z@
                                           -1.5em%
424
                             \itemindent
                             \listparindent\itemindent
425
426
                             \rightmargin \leftmargin
427
                             \advance\leftmargin 1.5em}%
                    \item\relax}
428
                   {\endlist}
429
430 \newenvironment{quotation}
                   {\list{}{\listparindent 1.5em%
431
                            \itemindent
                                            \listparindent
432
433
                            \rightmargin
                                            \leftmargin
434
                            \parsep
                                            \z@ \@plus\p@}%
                    \item\relax}
435
                   {\endlist}
436
   \newenvironment{quote}
437
                   {\list{}{\rightmargin\leftmargin}%
438
439
                    \item\relax}
440
                   {\endlist}
441 \if@compatibility
442 \newenvironment{titlepage}
443
         \if@twocolumn
444
           \@restonecoltrue\onecolumn
445
446
447
           \@restonecolfalse\newpage
448
449
         \thispagestyle{empty}%
450
         \setcounter{page}\z0
       }%
451
```

```
{\if@restonecol\twocolumn \else \newpage \fi
452
453
454 \ensuremath{\setminus} else
455 \newenvironment{titlepage}
456
        {%
457
          \if@twocolumn
458
             \@restonecoltrue\onecolumn
459
          \else
             \@restonecolfalse\newpage
460
          \fi
461
          \thispagestyle{empty}%
462
463
          \setcounter{page}\@ne
464
        {\if@restonecol\twocolumn \else \newpage \fi
465
         \if@twoside\else
466
             \setcounter{page}\@ne
467
         \fi
468
        }
469
470 \fi
```

The appendix command has many tasks. Note that right now, if you have only one appendix, you're on your own. A lot of this was ripped from Peter Wilson's appendix class. The only reason I ripped it was because his system provides no facility for telling it whether chapter or section starts an appendix for a non-standard class. Since this needs to be fairly easy for fellow students (E.g. no editing other packages if I can help it), I rewrote and inserted it here.

```
471 \newcommand\appendix{\par}
     \thispagestyle{plain}%
472
     \if@twocolumn\onecolumn\@tempswatrue\else\@tempswafalse\fi
473
     \markboth{}{}%
474
     {\setcounter{secnumdepth}{-1}
475
     \chapter{\appendixtocname}
476
     \setcounter{secnumdepth}{0}}%
477
     \vfil\newpage
478
     \if@twoside
479
480
        \if@openright
481
          \thispagestyle{empty}%
482
          \newpage
483
       \fi
484
     \fi
485
     \if@tempswa
486
487
       \twocolumn
488
489
     \setcounter{section}{0}
490
     \setcounter{chapter}{0}
491
     \renewcommand\@chapapp{\appendixname}
492
493
     \renewcommand\thechapter{\@Alph\c@chapter}
494
     \let\oldacl@pp=\addcontentsline
```

```
\def\addcontentsline##1##2##3{%
495
       \ifthenelse{\equal{##1}{toc}}{%
496
         497
           \addtocontents{##1}{\protect\contentsline{##2}%
498
                                {\appendixname\space ##3}{\thepage}}}%
499
500
         {\oldacl@pp{##1}{##2}{##3}}}%
501
       {\oldacl@pp{##1}{##2}{##3}}}
Note: Still in \appendix.
Note we have that darned colon in for appendicies in the TOC. Also note the ugly
kludge being used to remove vertical spacing between appendix names.
502 \def\@chapter[##1]##2{\ifnum \c@secnumdepth >\m@ne
503
                             \refstepcounter{chapter}%
504
                             \typeout{\@chapapp\space\thechapter}%
                             \addcontentsline{toc}{section}%
505
                                       {\@chapapp\space\thechapter: ##1}%
506
507
                       \else
                          \addcontentsline{toc}{chapter}{##1}%
508
509
                        \chaptermark{##1}%
510
                          \if@twocolumn
511
                          \@topnewpage[\@makechapterhead{##2}]%
512
513
514
                          \@makechapterhead{##2}%
                          \@afterheading
515
516
                       \fi}
Now things are redefined a special page just for the chapter heading.
517 \def\@makechapterhead##1{%
     \vspace*{1in}%
518
519
     {\parindent \z@ \centering \normalfont
       \ifnum \c@secnumdepth >\m@ne
520
           \bfseries \@chapapp\ \thechapter\@\par
521
522
       \fi
523
       \vskip 40\p@
524
       \bfseries \MakeUppercase##1\par\nobreak
525
       \clearpage
526
    }}
527 }
528 \setlength\arraycolsep{5\p0}
529 \setlength\tabcolsep{6\p0}
530 \setlength\arrayrulewidth{.4\p0}
531 \setlength\doublerulesep{2\p0}
532 \setlength\tabbingsep{\labelsep}
533 \skip\@mpfootins = \skip\footins
534 \setlength\fboxsep{3\p0}
535 \setlength\fboxrule{.4\p0}
536 \@addtoreset {equation}{chapter}
```

{\ifnum \c@chapter>\z@ \thechapter.\fi \@arabic\c@equation}

537 \renewcommand\theequation

Here we reconfigure lists of figures and tables to appear in table of contents. Also, parts of report.cls were removed to reconfigure figure counter to number for the entire document rather than per chapter.

```
539 \newcounter{figure}
540 \def\fps@figure{tbp}
541 \def\ftype@figure{1}
542 \def\ext@figure{lof}
543 \def\fnum@figure{\underline{\figurename~\thefigure.}}
544 \newenvironment{figure}
545
                                                                                          {\@float{figure}}
                                                                                          {\end@float}
546
547 \newenvironment{figure*}
                                                                                          {\@dblfloat{figure}}
548
                                                                                          {\end@dblfloat}
549
    Reconfigured table counter to number for the entire document, not per chapter.
    (Bits of report.cls removed)
550 \newcounter{table}
551 \def\fps@table{tbp}
552 \def\ftype@table{2}
553 \def\ext@table{lot}
554 \def\fnum@table{\underline{\tablename~\thetable.}}
555 \newenvironment{table}
556
                                                                                          {\@float{table}}
                                                                                          {\end@float}
557
558 \newenvironment{table*}
                                                                                         {\@dblfloat{table}}
559
                                                                                          {\end@dblfloat}
560
561 \newlength\abovecaptionskip
562 \newlength\belowcaptionskip
563 \setlength\abovecaptionskip{10\p0}
564 \setlength\belowcaptionskip{0\p0}
565 \long\def\@makecaption#1#2{%
                         \vskip\abovecaptionskip
566
                         \sbox\@tempboxa{#1 #2}%
567
568
                         \ifdim \wd\@tempboxa >\hsize
569
                                   #1 #2\par
570
                         \else
                                    \global \@minipagefalse
571
                                    \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
572
573
                         \vskip\belowcaptionskip}
574
575 \ensuremath{\mbox{\mbox{\mbox{$15$}}}{\mbox{\mbox{\mbox{\mbox{\mbox{$15$}}}}}}{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{\mbox{$15$}}}}{\mbox{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{\mbox{\mbox{$15$}}}}}{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox{\mbox
576 \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{\
577 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
578 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
580 \label{lem:command} $$50 \end{\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}_{\normalfont\sl}
581 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\@nomath\sc}
582 \DeclareRobustCommand*\cal{\@fontswitch\relax\mathcal}
```

```
583 \DeclareRobustCommand*\mit{\@fontswitch\relax\mathnormal}
584 \newcommand\@pnumwidth{1.55em}
585 \newcommand\@tocrmarg{2.55em}
586 \newcommand\@dotsep{4.5}
587 \setcounter{tocdepth}{2}
588 \newcommand\tableofcontents{%
589
                                  \if@twocolumn
590
                                           \@restonecoltrue\onecolumn
                                   \else
591
                                           \@restonecolfalse
592
                                   \fi
593
                                   \chapter*{\contentsname
594
                                                     \@mkboth{%
595
                                                                   \MakeUppercase\contentsname}{\MakeUppercase\contentsname}}%
596
                                   \@starttoc{toc}%
597
                                  \if@restonecol\twocolumn\fi
598
599
600 \newcommand*\l@part[2]{%
601
                        \ifnum \c@tocdepth >-2\relax
602
                                  \addpenalty{-\@highpenalty}%
                                   \addvspace{2.25em \@plus\p@}%
603
604
                                   \begingroup
                                           \parindent \z@ \rightskip \@pnumwidth
605
                                           \parfillskip -\@pnumwidth
606
607
                                            {\leavevmode
608
                                                \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
                                                 \nobreak
609
610
                                                          \global\@nobreaktrue
                                                         \everypar{\global\@nobreakfalse\everypar{}}%
611
612
                                   \endgroup
                        fi
613
   Here we setup table of contents.
614 \newcommand*\l@chapter{\vspace{1em}\@dottedtocline{0}{0em}{4em}}
615 \newcommand*\l@section{\@dottedtocline{1}{5.5em}{2.3em}}
616 \end{0} \label{localine} $$616 \end{0} \end{0} \label{localine} $$16 \end{0} \end{0} \end{0} $$16 \end{0} \end{0} \end{0} $$16 \end{0} \end{0}
617 \mbox{ } \mbox{0} \mbox{
618 \newcommand*\l@paragraph{\@dottedtocline{4}{14em}{5em}}
619 \mbox{ } \mbox{0} \mbox{
   List of illustrations modified to appear in the table of contents.
620 \newcommand\listofillustrations{%
                                  \setcounter{secnumdepth}{-1}
621
622
                                   \chapter{\listillusname%
                                           \@mkboth{\MakeUppercase\listillusname}%
623
                                                                                  {\MakeUppercase\listillusname}}%
624
625 \begin{doublespace}%
626 \begin{raggedright}%
627 \textbf{\underline{Figures}\hfill\underline{Page}}%
628 \end{raggedright}%
629 \@starttoc{lof}%
```

```
630 \vspace{2em}
631 \begin{raggedright}%
632 \textbf{ \text{Tables}} \textbf{\text{Inderline}{Page}} \%
633 \end{raggedright}%
634 \@starttoc{lot}%
635 \end{doublespace}
636 \setcounter{secnumdepth}{0}
638 \ensuremath{\verb| l@figure{l@dottedtocline{1}{0em}{2.3em}}|
639 \let\l@table\l@figure
640 \newdimen\bibindent
641 \setlength\bibindent{1.5em}
642 \newenvironment{thebibliography}[1]
         {\chapter*{\bibname
643
            \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
644
          \list{\@biblabel{\@arabic\c@enumiv}}%
645
               {\tt \{\settowidth\labelwidth{\label{#1}}\%}
646
                 \leftmargin\labelwidth
647
648
                 \advance\leftmargin\labelsep
649
                 \@openbib@code
650
                 \usecounter{enumiv}%
                 \let\p@enumiv\@empty
651
                 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
652
653
          \sloppy
654
          \clubpenalty4000
655
          \@clubpenalty \clubpenalty
          \widowpenalty4000%
656
          \sfcode'\.\@m}
657
         {\def\@noitemerr
658
           {\@latex@warning{Empty 'thebibliography' environment}}%
659
          \endlist}
660
661 \mbox{\mbox{\mbox{newcommand\mbox{\mbox{minus.07em}}}} .11em\mbox{\mbox{\mbox{gplus.33em}\mbox{\mbox{\mbox{$\it cm$}}}}
662 \let\@openbib@code\@empty
663 \newenvironment{theindex}
                    {\if@twocolumn
664
665
                       \@restonecolfalse
                     \else
666
667
                       \@restonecoltrue
668
                     \fi
                     \columnseprule \z@
669
670
                     \columnsep 35\p@
                     \twocolumn[\@makeschapterhead{\indexname}]%
671
                     \@mkboth{\MakeUppercase\indexname}%
672
                              {\MakeUppercase\indexname}%
673
674
                     \thispagestyle{plain}\parindent\z@
675
                     \parskip\z@ \@plus .3\p@\relax
676
                     \let\item\@idxitem}
677
                    {\if@restonecol\onecolumn\else\clearpage\fi}
678 \mbox{ \newcommand\@idxitem{\par\hangindent } 40\p@}
679 \newcommand\subitem{\@idxitem \hspace*\{20\p0\}}
```

```
680 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
681 \end{10} \end{1
682 \mbox{ renewcommand} footnoterule{%}
           \mbox{kern-3}p0
683
           \hrule\@width.4\columnwidth
684
           \ensuremath{\mbox{kern2.6}_{p0}}
686 \@addtoreset{footnote}{chapter}
687 \newcommand\@makefntext[1]{%
                 \parindent 1em%
688
                 \noindent
689
                 \hb@xt@1.8em{\hss\@makefnmark}#1}
690
  Kettering requires that these be all caps. While we do have automatic uppercasing
 in spots, it's best to cover all the bases.
691 \newcommand\contentsname{TABLE OF CONTENTS}
692 \newcommand\listillusname{LIST OF ILLUSTRATIONS}
693 \newcommand\bibname{REFERENCES}
                                                                                                          % APA format!
694 \newcommand\indexname{INDEX}
695 \newcommand\figurename{Figure}
696 \newcommand\tablename{Table}
697 \newcommand\partname{PART}
698 \newcommand\chaptername{Chapter}
699 \newcommand\appendixname{APPENDIX}
700 \newcommand\appendixtocname{APPENDICES}
701 \newcommand\prefacename{PREFACE}
702 \def\today{\ifcase\month\or
           January\or February\or March\or April\or May\or June\or
           July\or August\or September\or October\or November\or December\fi
           \space\number\day, \number\year}
706 \setlength\columnsep{10\p0}
707 \setlength\columnseprule{0\p0}
708 \pagestyle{plain}
  The thesis begins with Roman page numerals, and continues with Arabic. Some
  sections in the front are double-spaced.
709 \pagenumbering{roman}
710 \newcommand\begincontent{
711 \clearpage
712 \pagenumbering{arabic}
713 \setminus double spacing
714 }
 Margin Setup
715 \setlength{\oddsidemargin}{.5 in}
716 \setlength{\footskip}{.5 in}
717 \setlength{\textheight}{9 in}
718 \setlength{\textwidth}{6 in}
719 \setlength{\topmargin}{Opt}
720 \setlength{\headheight}{Opt}
721 \setlength{\headsep}{0pt}
722 \setlength{\voffset}{0pt}
```

```
723 \setlength{\hoffset}{Opt}
724 \setlength{\textheight}{9in}
725
726
727 \if@twoside
728 \else
     \raggedbottom
730 \fi
731 \if@twocolumn
    \twocolumn
732
733
     \sloppy
734
     \flushbottom
735 \setminus else
736 \onecolumn
737 \fi
```

Rather than stomp on the documentation, I'll simply indicate that it's right below. Note that I have altered the file somewhat. If I was less lazy, I'd pull out the unneccesary bits.

```
738 %
739 % Save file as: ENDNOTES.STY
740 % modified by --bg (B.Gaulle) 09/14/94 for:
                 1) replace (why a 8bit char here?) by ^ as a default.
742 %
                 2) force \catcode of > to be 12 (implied by \@doanenot).
743 %
             by --bg again 03/22/95 for:
744 %
                  3) reseting appropriate catcode of > in case it were
745 %
                    used as an active char before \@endanenote (was
                    pointed by Ch. Pallier).
747 %%%% free to distribute by John_Lavagnino@Brown.edu on Thu, 23 Mar 1995
749 %
750 %
                        ENDNOTES
751 %
752 %
          ***********
753 %
754 % Date of this version: 24 September 1991.
755 %
756 % Based on the FOOTNOTES section of
757 % LATEX.TEX (VERSION 2.09 - RELEASE OF 19 April 1986), with
     "footnote" changed to "endnote" and "fn" changed to "en" (where
     appropriate), with all the minipage stuff pulled out, and with
759 %
760 %
     some small changes for the different operation of endnotes.
761 %
762 %
     Uses an extra external file, with .ENT extension, to hold the
     text of the endnotes. This may be deleted after the run; a new
763 %
     version is generated each time.
764 %
765 %
766 % This code does not obey \nofiles. Perhaps it should.
767 %
      John Lavagnino (lav@brandeis.bitnet), 9/23/88
768 %
```

```
769 %
       Department of English and American Literature,
770 %
          Brandeis University
771 %
772 \% To turn all the footnotes in your documents into endnotes, say
773 %
774 %
         \let\footnote=\endnote
775 %
     in your preamble, and then add something like
776 %
777 %
778 %
         \newpage
779 %
         \begingroup
780 %
         \parindent Opt
781 %
         \parskip 2ex
782 %
        \def\enotesize{\normalsize}
783 %
         \theendnotes
784 %
        \endgroup
785 %
786 \% as the last thing in your document.
787 %
788 %
                       CHANGE LOG
789 %
790 %
           ***********
791 %
792 % JL Modified to include \addtoendnotes. JL, 10/22/89.
793 %
794 % JK Modification by J"org Knappen 25. 2. 1991:
795 % JK
796 % JK Introduced \notesname in the spirit of international \LaTeX.
797\;\text{\%} JK \notesname is set per default to be {Notes}, but can easily
798 % JK be redifined, e.g. for german language
799 % JK \renewcommand{\notesname}{Anmerkungen}
800 %
801 % DW Modification by Dominik Wujastyk, London, 19 September 1991:
802 % DW
803 \% DW Moved the line
804 % DW
               \edef\@currentlabel{\csname p@endnote\endcsname\@theenmark}
805\ \% DW out of the definition of \@endnotetext and into the definition
806 % DW of \@doanenote so that \label and \ref commands work correctly in
807 % DW endnotes. Otherwise, the \label just pointed to the last section
808 % DW heading (or whatever) preceding the \theendnotes command.
809 %
810 % JL Revised documentation and macros. 24 Sept 1991.
811 %
812 %
           ***********
813 %
                  ENDNOTE COMMANDS
814 %
           ***********
815 %
816 %
817 %
       \endnote{NOTE}
                         : User command to insert a endnote.
818 %
```

```
819 %
       \endnote[NUM]{NOTE} : User command to insert a endnote numbered
820 %
                              NUM, where NUM is a number -- 1, 2,
821 %
                              etc. For example, if endnotes are numbered
822 %
                              *, **, etc. within pages, then \endnote[2]{...}
823 %
                              produces endnote '**'. This command does not
824 %
                              step the endnote counter.
825 %
       \endnotemark[NUM]
826 %
                           : Command to produce just the endnote mark in
827 %
                              the text, but no endnote. With no argument,
                              it steps the endnote counter before generating
828 %
829 %
                              the mark.
830 %
831 %
       \endnotetext[NUM]{TEXT} : Command to produce the endnote but no
832 %
                                 mark. \endnote is equivalent to
833 %
                                 \endnotemark \endnotetext .
834 %
       \addtoendnotes{TEXT} : Command to add text or commands to current
835 %
                                 endnotes file: for inserting headings,
836 %
837 %
                                 pagebreaks, and the like into endnotes
838 %
                                 sections. TEXT a moving argument:
                                 \protect required for fragile commands.
839 %
840 %
841 %
           ***********
                   ENDNOTE USER COMMANDS
842 %
843 %
           ************
844 %
845 %
       Endnotes use the following parameters, similar to those relating
       to footnotes:
846 %
847 %
848 %
                  : Size-changing command for endnotes.
       \enotesize
849 %
850 %
       \theendnote : In usual LaTeX style, produces the endnote number.
851 %
       \@theenmark : Holds the current endnote's mark--e.g., \dag or '1' or 'a'.
852 %
853 %
854 %
       \@makeenmark : A macro to generate the endnote marker from \@theenmark
855 %
                     The default definition is \hbox{$^\circ\def}.
856 %
857 %
       \Omakeentext{NOTE} :
858 %
           Must produce the actual endnote, using \@theenmark as the mark
859 %
            of the endnote and NOTE as the text. It is called when effectively
860 %
           inside a \parbox, with \hsize = \columnwidth. For example, it might
861 %
           be as simple as
862 %
                  $^{\@theenmark}$ NOTE
863 %
864 %
865 %
866 %
                   ENDNOTE PSEUDOCODE
867 %
           ***********
868 %
```

```
869 % \endnote{NOTE} ==
870 % BEGIN
871 %
        \stepcounter{endnote}
872 %
        \Otheenmark :=G eval (\theendnote)
873 %
        \@endnotemark
874 %
        \@endnotetext{NOTE}
875 % END
876 %
877 % \endnote[NUM]{NOTE} ==
878 % BEGIN
879 %
        {\tt begingroup}
           counter endnote :=L NUM
880 %
881 %
           \Otheenmark :=G eval (\theendnote)
882 %
        endgroup
        \@endnotemark
883 %
884 %
        \@endnotetext{NOTE}
885 % END
886 %
887 % \@endnotetext{NOTE} ==
        write to \@enotes file: "\@doanenote{ENDNOTE MARK}"
889 %
890 %
        begingroup
           \next := NOTE
891 %
           set \newlinechar for \write to \space
892 %
           write to \@enotes file: \meaning\next
893 %
                    (that is, "macro:->NOTE)
894 %
895 %
        endgroup
896 %
      END
897 %
898 % \addtoendnotes{TEXT} ==
899 % BEGIN
900 %
        open endnotes file if not already open
901 %
        begingroup
902 %
           let \protect to \string
903 %
           set \newlinechar for \write to \space
           write TEXT to \@enotes file
904 %
905 %
        endgroup
      END
906 %
907 %
908 % \endnotemark
909 % BEGIN \stepcounter{endnote}
            \@theenmark :=G eval(\theendnote)
910 %
911 %
             \@endnotemark
912 % END
913 %
914 % \endnotemark[NUM] ==
915 %
       BEGIN
916 %
           begingroup
917 %
             endnote counter :=L NUM
918 %
            \Otheenmark :=G eval(\theendnote)
```

```
919 %
           endgroup
920 %
           \@endnotemark
921 %
      END
922 %
923 % \@endnotemark ==
924 %
      BEGIN
925 %
       \leavevmode
       IF hmode THEN \@x@sf := \the\spacefactor FI
926 %
                             % put number in main text
927 %
       \@makeenmark
       IF hmode THEN \spacefactor := \@x@sf FI
928 %
929 %
       END
930 %
931 % \endnotetext
932 %
       BEGIN \Otheenmark :=G eval (\theendnote)
933 %
             \@endnotetext
934 %
       END
935 %
936 % \endnotetext[NUM] ==
937 %
       BEGIN begingroup counter endnote :=L NUM
938 %
                         \@theenmark :=G eval (\theendnote)
939 %
             endgroup
940 %
             \@endnotetext
       END
941 %
942 %
943 %
           ************
                      ENDNOTE MACROS
944 %
945 %
           ***********
946 %
947
948 \@definecounter{endnote}
949 \def\theendnote{\arabic{endnote}}
950
951\,\% Default definition
952 \end{constraint} $$952 \end{constraint} $$
953
954 \newdimen\endnotesep
955
956 \end{oute} \
957
     {endnote}\xdef\@theenmark{\theendnote}\@endnotemark\@endnotetext}}
958
959 \def\@xendnote[#1]{\begingroup \c@endnote=#1\relax
960
     \xdef\@theenmark{\theendnote}\endgroup
      \@endnotemark\@endnotetext}
961
962
963 % Here begins endnote code that's really different from the footnote
964 \% code of LaTeX.
966 \let\@doanenote=0
967 \let\@endanenote=0
968
```

```
969 \newwrite\@enotes
 970 \newif\if@enotesopen \global\@enotesopenfalse
 971
 972 \end{copen} on the limit of the lambda open out \end{contest} on the lambda open out \end{copen} on the lambda open
                     \global\@enotesopentrue}
 973
 974
 975 % The stuff with \next and \meaning is a trick from the TeXbook, 382,
 976 % there intended for setting verbatim text, but here used to avoid
 977\,\% macro expansion when the footnote text is written. \next will have
 978\;\text{\%} the entire text of the footnote as one long line, which might well
 979 % overflow limits on output line length; the business with \newlinechar
 980 % makes every space become a newline in the \Genotes file, so that all
 981 % of the lines wind up being quite short.
 983 \long\def\@endnotetext#1{%
                   \if@enotesopen \else \@openenotes \fi
 984
                   \immediate\write\@enotes{\@doanenote{\@theenmark}}%
 985
 986
                   \begingroup
 987
                         \left( \frac{\#1}{\%} \right)
 988
                         \newlinechar='40
 989
                         \immediate\write\@enotes{\meaning\next}%
                   \endgroup
 990
                   \immediate\write\@enotes{\@endanenote}}
 991
 992
 993 % \addtoendnotes works the way the other endnote macros probably should
 994 % have, requiring the use of \protect for fragile commands.
 996 \long\def\addtoendnotes#1{%
                   \if@enotesopen \else \@openenotes \fi
 997
                   \begingroup
 998
                         \newlinechar='40
 999
1000
                         \let\protect\string
1001
                         \immediate\write\@enotes{#1}%
                   \endgroup}
1002
1003
1004 % End of unique endnote code
1005
1007
                }{\stepcounter{endnote}\xdef\Otheenmark{\theendnote}\Oendnotemark}}
1008
1009 \def\@xendnotemark[#1] {\begingroup \c@endnote #1\relax
              \xdef\@theenmark{\theendnote}\endgroup \@endnotemark}
1010
1011
1012 \def\@endnotemark{\leavevmode\ifhmode
1013
            \edef\@x@sf{\the\spacefactor}\fi \@makeenmark
1014
              \ifhmode\spacefactor\@x@sf\fi\relax}
1015
1016 \def\endnotetext{\@ifnextchar
1017
                 [{\@xendnotenext}{\xdef\@theenmark{\theendnote}\@endnotetext}}
1018
```

```
1019 \def\@xendnotenext[#1]{\begingroup \c@endnote=#1\relax
       \xdef\@theenmark{\theendnote}\endgroup \@endnotetext}
1020
1021
1022
1023 % \theendnotes actually prints out the endnotes.
1024
1025~\% Endnotes auto-renumber at the end of each chapter (or actually, when
1026 % they're printed...)
1027\,\% \enoteformat is provided so user can specify some special formatting
1028\ \% for the endnotes. It needs to set up the paragraph parameters, start
1029 % the paragraph, and print the label. The \leavemode stuff is to make
1030 % and undo a dummy paragraph, to get around the games \section*
1031 % plays with paragraph indenting.
1032
1033 \def\notesname{NOTES}% <---- AE
1034 \def\enoteheading{\chapter*{\notesname
      \@mkboth{\uppercase{\notesname}}}\uppercase{\notesname}}}\"
1035
         \leavevmode\par\vskip-\baselineskip}
1036
1037
1038 \def\enoteformat{\vspace{\baselineskip}\rightskip\z@ \leftskip\z@ \parindent=1.8em
1039
         \leavevmode\llap{\hbox{$^{\@theenmark}$}}}
1040
1041 \def\enotesize{\normalsize}
1042
1043~\% The definition of \ETC. is needed only for versions of TeX prior
1044 \% to 2.992. Those versions limited \meaning expansions to 1000
1045\,\% characters; in 2.992 and beyond there is no limit. At Brandeis the
1046~\% BIGLATEX program changed the code in the token_show procedure of
1047\ \text{\%} TeX to eliminate this problem, but most ''big'' versions of TeX
1048 \% will not solve this problem.
1049
1050 \def\theendnotes{\immediate\closeout\@enotes \global\@enotesopenfalse
1051
      \begingroup
1052
        \makeatletter
1053 % the following is to save catcode of "'>" and restore it in \@endanenote
1054 \edef\@tempa{'\string >}%
1055 \ifnum\catcode\@tempa=11\let\@ResetGT\relax% accepts also that > were active
      \else\edef\@ResetGT{\noexpand\catcode\@tempa=\the\catcode\@tempa}%
1057 \fi%
        \catcode'>=12% char > will be read as char so force it to \catcode 12 --bg\edef\GOfrench{'\
1058
1059
        \def\@doanenote##1##2>{\def\@theenmark{##1}\par\begingroup
            \@ResetGT%\catcode'>=13
1060
            \edef\@currentlabel{\csname p@endnote\endcsname\@theenmark} %DW
1061
            \enoteformat}
1062
1063
        \def\@endanenote{\par\endgroup}%
1064
        \def\ETC.{\errmessage{Some long endnotes will be truncated; %
1065
                                 use BIGLATEX to avoid this}%
1066
              \def\ETC.{\relax}}
        \clearpage
1067
```

\enoteheading

1068

```
1069 \enotesize
1070 \begin{singlespacing}
1071 \input{\jobname.ent}%
1072 \end{singlespacing}
1073 \endgroup
1074 \setcounter{endnote}{0}}
1075 \endinput
```