

A document class for theses for the Clayton and Caulfield Schools of Information Technology Monash University

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1 Introduction

This file implements a document class suitable for theses presented in the Clayton and Caulfield Schools of Information Technology and Monash University. It may be suitable for publications at other universities with some modifications.

The `cssethesis` document class is based on `book` document class contained in the standard $\text{\LaTeX}2\text{e}$ distribution. The basic functionality of `book.cls` is retained. A few routines from `book` have been redefined. Note that the default layout is for two-sided printing. Use the class option `oneside` if you want margins, headers and footers for single-sided printing.

`cssethesis.dtx` requires an additional $\text{\LaTeX}2\text{e}$ package, `setspace`. Packages can be found on CTAN archive sites, and `setspace.sty` should have been included in this distribution (though you should probably leave it and use the version with your $\text{\LaTeX}2\text{e}$ distribution, which is most likely more recent). `setspace` defines four new environments: `singlespace`, `doublespace`, `onehalfspace`, and `spacing`. Please refer to its documentation for more information. `cssethesis.dtx` also makes use of the standard $\text{\LaTeX}2\text{e}$ packages `geometry` and `graphicx`.

Also included with this distribution are the files for the `harvard` package, which provides a powerful citation scheme, and some associated bibliography style files. The combination of the `harvard` package and the `dcu` bibliography style is recommended (see `example.tex`). Note that the `natbib` package supports similar functionality, and is preferred by many.

`cssethesis.dtx` was originally based on `utthesis.cls` written by Dinesh Das. It also has origins in the `wuthesis.dtx` by Kevin S. Ruland of Sever Institute.

2 Docstrip Commands

This section of code is for `docstrip`. If \LaTeX is run with this file, `cssethesis.dtx`, as input, documented source code will be produced.

```
1 {*driver}
2 \documentclass{ltxdoc}
3 \usepackage{doc} % use the doc package
4 \IndexPrologue{} % remove default index prologue
```

```

5 \setcounter{IndexColumns}{2}      % two column index
6 \EnableCrossrefs                 % make the command index
7 \CodelineIndex                   %   by code line
8 \CodelineNumbered                % number the code lines
9 % I really want the changelog to be one column.  So
10 % theglossary is redefined.
11 \makeatletter
12 \renewenvironment{theglossary}{%
13 \smallskip
14 \GlossaryParms
15 \let\item\@idxitem
16 \ignorespaces}{%}
17 \makeatother
18 \RecordChanges                   % make the changelog
19 \begin{document}
20 \DocInput{cssethesis.dtx}
21 \end{document}
22 </driver>

```

3 Identification

Identify this package, and its contents to the user and latex.

```

23 % Actually not much of this code remains, but the copyright
24 % remains.
25 %*****
26 %** UT Austin Thesis Style File, version 2.0, January 1995
27 %**
28 %** Copyright (c) 1995 Dinesh Das. All rights reserved.
29 %** This file is free and can be modified or distributed as
30 %**
31 %** (1) This copyright notice is kept intact on all modified
32 %**    copies.
33 %** (2) If this file is modified, the original file name must
34 %**    not be used.
35 %*****
36
37 \NeedsTeXFormat{LaTeX2e}
38 \ProvidesClass{cssethesis}[2005/10/18 v1.7 Monash Caulfield and Clayton Schools of Information

```

4 Declaration of Options

The `pdflatex` option allows the user to specify that they wish to compile their document using `pdflatex`. This means that the Adobe PDF file format must be used for included graphics, rather than Postscript. We need to know this so that we can pass the right option to the `graphicx` package.

```

39 \newif\if@pdflatex \@pdflatexfalse % Default is false
40 \DeclareOption{pdflatex}{\@pdflatextrue}

```

Intercept the `openright` and `openany` options. We want to be able to override them in the frontmatter.

```

41 \newif\if@wasopenright \@wasopenrighttrue % true is the default
42 \DeclareOption{openright}{\@wasopenrighttrue}

```

```
43 \DeclareOption{openany}{\@wasopenrightfalse}
```

The `thesisdraft` option is useful for printing draft copies of the thesis. It will print a time stamp in the header of every page.

```
44 \DeclareOption{thesisdraft}{%
45   \AtEndOfClass{% So it will override the definition given below
46   \let\ps@plain\@empty
47     \def\ps@plain{%
48       \let\@oddfoot\@empty\let\@evenfoot\@empty
49       \def\@oddfoot{\hfil\textsl{Draft of \timestamp}}%
50       \def\@evenfoot{\textsl{Draft of \timestamp}\hfil}%
51   }
52 \let\ps@headings\@empty
53   \def\ps@headings{%
54     \let\@oddfoot\@empty\let\@evenfoot\@empty
55     \def\@oddfoot{\hfil\textsl{Draft of \timestamp}}%
56     \def\@evenfoot{\textsl{Draft of \timestamp}\hfil}%
57   }
58   }
59 }
```

If printing on a PostScript printer `thesispsdraft` can be used to add a PostScript special draft message across the page. `dr`

```
60 \DeclareOption{thesispsdraft}{%
61   \AtEndOfClass{% So it will override the definition given below
62   \let\ps@plain\@empty
63     \def\ps@plain{%
64   \special{!userdict begin /bop-hook{gsave 70 270 translate
65           90 rotate /Times-Roman findfont 80 scalefont setfont
66           0 0 moveto 0.9 setgray (DRAFT) show grestore}def end}
67 % note: what follows here is, and should be identical to that for
68 % the thesis draft option above. There must be some way of making
69 % this happen automatically...
70     \let\@oddfoot\@empty\let\@evenfoot\@empty
71     \def\@oddfoot{\hfil\textsl{Draft of \timestamp}}%
72     \def\@evenfoot{\textsl{Draft of \timestamp}\hfil}%
73   }
74 \let\ps@headings\@empty
75   \def\ps@headings{%
76     \let\@oddfoot\@empty\let\@evenfoot\@empty
77     \def\@oddfoot{\hfil\textsl{Draft of \timestamp}}%
78     \def\@evenfoot{\textsl{Draft of \timestamp}\hfil}%
79   }
80   }
81 }
```

Either a phd thesis, masters, masters (minor) or honours thesis. Default is phd thesis. Note the different options for honours and degrees in Computing, Computer Science, Digital Systems, Software Engineering and Science. There are also options for different kinds of Masters theses.

```
82 \DeclareOption{phdthesis}{%
83 \ifx\undefined\thesistype
84 \newcommand{\thesisfulfillment}{for fulfillment}
85 \newcommand{\thesistype}{Thesis}
86 \newcommand{\thesisdegree}{Doctor of Philosophy}
```

```

87 \newcommand{\thesisdegreeabbreviation}{PhD}
88 \newcommand{\thesiscoursecode}{0190}
89 \else
90 \ClassError{cssethesis}{only one thesis type option may be
91 specified}{}
92 \fi
93 }
94 \DeclareOption{mitthesis}{%
95 \ifx\undefined\thesistype
96 \newcommand{\thesisfulfillment}{for fulfillment}
97 \newcommand{\thesistype}{Thesis}
98 \newcommand{\thesisdegree}{Master of Information Technology (Research)}
99 \newcommand{\thesisdegreeabbreviation}{MIT}
100 \newcommand{\thesiscoursecode}{1895}
101 \else
102 \ClassError{cssethesis}{only one thesis type option may be
103 specified}{}
104 \fi
105 }
106 \DeclareOption{mitminorthesis}{%
107 \ifx\undefined\thesistype
108 \newcommand{\thesisfulfillment}{in partial fulfillment}
109 \newcommand{\thesistype}{Minor Thesis}
110 \newcommand{\thesisdegree}{Master of Information Technology (Minor Thesis)}
111 \newcommand{\thesisdegreeabbreviation}{MIT}
112 \newcommand{\thesiscoursecode}{3316}
113 \else
114 \ClassError{cssethesis}{only one thesis type option may be
115 specified}{}
116 \fi
117 }
118 % This one is for people doing an MIT (Coursework) with a minor thesis
119 \DeclareOption{mitcourseworkthesis}{%
120 \ifx\undefined\thesistype
121 \newcommand{\thesisfulfillment}{in partial fulfillment}
122 \newcommand{\thesistype}{Minor Thesis}
123 \newcommand{\thesisdegree}{Master of Information Technology (Coursework)}
124 \newcommand{\thesisdegreeabbreviation}{MIT}
125 \newcommand{\thesiscoursecode}{2402}
126 \else
127 \ClassError{cssethesis}{only one thesis type option may be
128 specified}{}
129 \fi
130 }
131 \DeclareOption{mcsminorthesis}{%
132 \ifx\undefined\thesistype
133 \newcommand{\thesisfulfillment}{in partial fulfillment}
134 \newcommand{\thesistype}{Minor Thesis}
135 \newcommand{\thesisdegree}{Master of Computer Science (Minor Thesis)}
136 \newcommand{\thesisdegreeabbreviation}{MCS}
137 \newcommand{\thesiscoursecode}{3328}
138 \else
139 \ClassError{cssethesis}{only one thesis type option may be
140 specified}{}

```

```

141 \fi
142 }
143 \DeclareOption{mdcthesis}{%
144 \ifx\undefined\thesistype
145 \newcommand{\thesisfulfillment}{for fulfillment}
146 \newcommand{\thesistype}{Thesis}
147 \newcommand{\thesisdegree}{Master of Digital Communications}
148 \newcommand{\thesisdegreeabbreviation}{MDC}
149 \newcommand{\thesiscoursecode}{2406}
150 \else
151 \ClassError{cssethesis}{only one thesis type option may be
152 specified}{}
153 \fi
154 }
155 \DeclareOption{bcomphonoursthesis}{%
156 \ifx\undefined\thesistype
157 \newcommand{\thesisfulfillment}{in partial fulfillment}
158 \newcommand{\thesistype}{Thesis}
159 \newcommand{\thesisdegree}{Bachelor of Computing with Honours}
160 \newcommand{\thesisdegreeabbreviation}{BComp(Hons)}
161 \newcommand{\thesiscoursecode}{0194}
162 \else
163 \ClassError{cssethesis}{only one thesis type option may be
164 specified}{}
165 \fi
166 }
167 \DeclareOption{bcshonoursthesis}{%
168 \ifx\undefined\thesistype
169 \newcommand{\thesisfulfillment}{in partial fulfillment}
170 \newcommand{\thesistype}{Thesis}
171 \newcommand{\thesisdegree}{Bachelor of Computer Science with Honours}
172 \newcommand{\thesisdegreeabbreviation}{BCompSc(Hons)}
173 \newcommand{\thesiscoursecode}{1608}
174 \else
175 \ClassError{cssethesis}{only one thesis type option may be
176 specified}{}
177 \fi
178 }
179 \DeclareOption{bdshonoursthesis}{%
180 \ifx\undefined\thesistype
181 \newcommand{\thesisfulfillment}{in partial fulfillment}
182 \newcommand{\thesistype}{Thesis}
183 \newcommand{\thesisdegree}{Bachelor of Digital Systems with Honours}
184 \newcommand{\thesisdegreeabbreviation}{BDigSys(Hons)}
185 \newcommand{\thesiscoursecode}{1200}
186 \else
187 \ClassError{cssethesis}{only one thesis type option may be
188 specified}{}
189 \fi
190 }
191 \DeclareOption{bshonoursthesis}{%
192 \ifx\undefined\thesistype
193 \newcommand{\thesisfulfillment}{in partial fulfillment}
194 \newcommand{\thesistype}{Thesis}

```

```

195 \newcommand{\thesisdegree}{Bachelor of Science (Computer Science) with
196 Honours}
197 \newcommand{\thesisdegreeabbreviation}{BSc(Hons)}
198 \newcommand{\thesiscoursecode}{0051}
199 \else
200 \ClassError{cssethesis}{only one thesis type option may be
201 specified}{}
202 \fi
203 }
204 \DeclareOption{bsehonoursthesis}{%
205 \ifx\undefined\thesistype
206 \newcommand{\thesisfulfillment}{in partial fulfillment}
207 \newcommand{\thesistype}{Thesis}
208 \newcommand{\thesisdegree}{Bachelor of Software Engineering with
209 Honours}
210 \newcommand{\thesisdegreeabbreviation}{BSE(Hons)}
211 \newcommand{\thesiscoursecode}{2770}
212 \else
213 \ClassError{cssethesis}{only one thesis type option may be
214 specified}{}
215 \fi
216 }
217 %

```

The following two Masters degree types are being phased out. They are retained for historical accuracy.

```

218 %
219 \DeclareOption{mcompthesis}{%
220 \ifx\undefined\thesistype
221 \newcommand{\thesisfulfillment}{for fulfillment}
222 \newcommand{\thesistype}{Thesis}
223 \newcommand{\thesisdegree}{Master of Computing}
224 \newcommand{\thesisdegreeabbreviation}{MComp}
225 \newcommand{\thesiscoursecode}{}
226 \else
227 \ClassError{cssethesis}{only one thesis type option may be
228 specified}{}
229 \fi
230 }
231 \DeclareOption{mcompminorthesis}{%
232 \ifx\undefined\thesistype
233 \newcommand{\thesisfulfillment}{in partial fulfillment}
234 \newcommand{\thesistype}{Thesis}
235 \newcommand{\thesisdegree}{Master of Computing (Minor)}
236 \newcommand{\thesisdegreeabbreviation}{MComp}
237 \newcommand{\thesiscoursecode}{}
238 \else
239 \ClassError{cssethesis}{only one thesis type option may be
240 specified}{}
241 \fi
242 }

```

The `nocoursecode` option is used to suppress the printing of the course code after the name of the course.

```

243 %
244 \DeclareOption{nocoursecode}{%
245     \let\thesiscoursecode\@undefined
246 }
247 %

```

The `litreview` option is used to indicate that this is a literature review for the thesis, rather than the thesis itself. This changes the title, and also causes information such as the student ID, supervisors and email addresses to be shown. This is not yet fully supported.

```

248 %
249 \newif\if@litreview \@litreviewfalse
250 \DeclareOption{litreview}{%
251     \@litreviewtrue
252 \renewcommand{\thesistype}{Literature Review}
253 }
254 %

```

These do the obvious, that is switch spacing in the main body of text. Monash University requires either `oneandhalfspace` or `doubleospace`. `singlespace` is useful for drafts and doesn't kill as many trees. If none is selected, the body will be set with `singlespace` spacing.

Each option executes the corresponding command from `setspace` at the `\begin{document}` command. Their execution must be delayed because `setspace` requires the macro `\@normalsize` to be defined. But the definition of `\@normalsize` (in `book`) is delayed until after the entire class is loaded.

```

255 \DeclareOption{singlespace}{\AtBeginDocument{\singlespacing}}
256 \DeclareOption{oneandhalfspace}{\AtBeginDocument{\onehalfspacing}}
257 \DeclareOption{doubleospace}{\AtBeginDocument{\doubleospace}}

```

This option forces the first paragraph after section headings to be indented.

```

258 \DeclareOption{indentfirst}{\let\@afterindentfalse\@afterindenttrue
259     \@afterindenttrue}

```

Pass all other options to `book.cls`

```

260 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}

```

The default options are

```

261 \ExecuteOptions{oneandhalfspace}
262 \ProcessOptions

```

We need to load the base class `book`

```

263 \LoadClass{book}[1994/12/01]

```

Make sure that one of `phdthesis`, `mitthesis`, etc. is selected.

```

264 \ifx\undefined\thesistype
265     \ClassError{cssethesis}
266     {thesis type not specified. Please give a class option to specify the
267     thesis type}%
268     {Use, for example, \protect\documentclass[phdthesis]{cssethesis}.
269     Possibilities are: phdthesis, mitthesis, mitminorthesis,
270     mitcourseworkthesis, mcsminorthesis, mdcthesis, bcomphonoursthesis,
271     bcshonoursthesis, bdshonoursthesis, bshonoursthesis,bsehonoursthesis}
272 \fi

```

Load in the `geometry` package, setting up the page layout. This simplifies things greatly compared to trying to set all the lengths manually.

```
273 \RequirePackage[paper=a4paper,left=30mm,width=150mm,top=25mm,bottom=25mm]{geometry}
```

Load in the `graphicx` package. This package is used to load the image for the Monash Crest. Note that the default is to pass the `dvips` option—the user must give the `pdflatex` option to `\documentclass` if they want to use PDF figures.

```
274 \if@pdflatex
275 \RequirePackage[pdftex]{graphicx}
276 \else
277 \RequirePackage[dvips]{graphicx}
278 \fi
```

Load in `setspace` to control baseline spacing

```
279 \RequirePackage{setspace}
```

5 User Customization

This section shows the default settings for a multitude of user changeable commands. These are used in setting the various pages of the thesis.

5.1 Should be set by the author

Each of the following should be customized by the author using commands of the form `\thesisauthor{Ima B. Student}`. The default values may be O.K. for some things.

```
280 \newcommand*\thesisauthor[1]{\gdef\@thesisauthor{#1}}
281 \newcommand*\thesisauthorlastname[1]{\gdef\@thesisauthorlastname{#1}}
282 \newcommand*\thesisauthorpreviousdegrees[1]{\gdef\@thesisauthorpreviousdegrees{#1}}
283 \newcommand*\thesisauthorstudentid[1]{\gdef\@thesisauthorstudentid{#1}}
284 \newcommand*\thesisauthoremail[1]{\gdef\@thesisauthoremail{#1}}
285 \newcommand*\thesismonth[1]{\gdef\@thesismonth{#1}}
286 \def\@thesismonth{\ifcase%
287 \month\or January%
288 \or February%
289 \or March%
290 \or April%
291 \or May%
292 \or June%
293 \or July%
294 \or August%
295 \or September%
296 \or October%
297 \or November%
298 \or December\fi} % use current month as default
299 \newcommand*\thesisyear[1]{\gdef\@thesisyear{#1}}
300 \def\@thesisyear{\number\year} % use current year as default
301 \newcommand*\thesistitle[1]{\gdef\@thesistitle{#1}}
302 \newcommand*\thesissupervisor[1]{\gdef\@thesissupervisor{#1}}
303 \newcommand*\thesissupervisoremail[1]{\gdef\@thesissupervisoremail{#1}}
304 \newcommand*\thesisassocsupervisor[1]{\gdef\@thesisassocsupervisor{#1}}
305 \newcommand*\thesisassocsupervisoremail[1]{\gdef\@thesisassocsupervisoremail{#1}}
```



```

306 %% Set up these ones with default values
307 \gdef\@thesisdepartment{Clayton School of Information Technology}
308 \newcommand*\@thesisdepartment[1]{\gdef\@thesisdepartment{#1}}
309 \newcommand*\@thesisuniversity[1]{\gdef\@thesisuniversity{#1}}
310 \def\@thesisuniversity{Monash University}
311 \newcommand*\@thesistypist[1]{\gdef\@thesistypist{#1}}
312 \def\@thesistypist{the author}
313 \newcommand*\@thesisdedication[1]{\gdef\@thesisdedication{#1}}

```

5.2 Need not be redefined

These commands are usually fine as is. They may be changed using `\renewcommand` if desired.

```

314 \newcommand{\thesisdefaultbaselinestretch}{1.5}
315 \newcommand{\thesistypetypesize}{\large}
316 \newcommand{\thesisititletypesize}{\Large}
317 \newcommand{\thesisititlebold}{\textbf{\thesisititletypesize\@thesisititle}}
318 \newcommand{\thesisstudenttypesize}{\large}
319 \newcommand{\thesisstudentbold}{\textbf{\thesisstudenttypesize \@thesisstudent}}
320 \newcommand{\thesisdegreetypesize}{\large}
321 \newcommand{\thesisititlepagefont}{\fontsize{14}{14}\selectfont}
322 \newcommand{\thesiscopyrightholder}{\@thesisauthor}
323 \newcommand{\thesiscommittee}{Supervising Committee:}
324 \newcommand{\thesiscommitteesize}{5}
325 \newcommand{\thesisvitahead}{Vita}
326 \newcommand{\thesisvitaheadtypesize}{\huge\bfseries}
327 \newcommand{\thesisacknowledgmenthead}{Acknowledgments}
328 \newcommand{\thesisacknowledgmentsigname}{\@thesisauthor}
329 \newcommand{\thesisacknowledgmentsigname}{\large}
330 \newcommand{\thesisacknowledgmentsigplace}{%
331     {\slshape
332         \@thesisuniversity \\\
333         \@thesismonth\ \@thesisyear}}
334 \newcommand{\thesisstudent}{%
335 \ifx\undefined\@thesisauthorpreviousdegrees
336 \@thesisauthor
337 \else
338 \@thesisauthor, \@thesisauthorpreviousdegrees
339 \fi
340 }

```

These penalties eliminate widows, orphans (clubs), and pages ending in hyphens.

```

341 \widowpenalty =10000
342 \clubpenalty =10000
343 \brokenpenalty=10000

```

6 Page styles and chapter openings

We like to use different page styles for the front matter and main text of the document. For the front matter, the page numbers should be at the bottom so we use the `plain` page style. For the main matter, we use the default `headings` style from `book.cls`. We also want “chapters” to be able to start on any page in

the front matter, but only on righthand pages in the main matter (unless the user specifies the option `openany`).

`\frontmatter`

```
344 \renewcommand{\frontmatter}{%
345   \cleardoublepage
346   \@mainmatterfalse
347   \pagenumbering{roman}
348 % These line added (not in book.cls):
349   \@openrightfalse
350   \pagestyle{plain}}
```

`\mainmatter`

```
351 \renewcommand{\mainmatter}{%
352   \cleardoublepage
353   \@mainmattertrue
354   \pagenumbering{arabic}
355 % These lines added:
356   \if@wasopenright
357     \@openrighttrue % restore previous setting
358   \else
359     \@openrightfalse
360   \fi
361   \pagestyle{headings}}
```

7 Frontmatter

These commands typeset various pages in the front matter. Their order in this file is not the order in which they should appear in a thesis. Please refer to the sample document for proper order.

`\thesisdedicationpage` This is a simple command.

```
362 \newcommand{\thesisdedicationpage}{%
363   \strut \vfill
364   \begin{spacing}{1.5}
365   \begin{center}
366     \@thesisdedication
367   \end{center}
368   \end{spacing}
369   \vfill \strut
370   \newpage}
```

`thesisacknowledgments` Currently it sets the contents in single spacing, but in the future may be changeable.

```
371 \newenvironment{thesisacknowledgments}
372   {%
373   \chapter*{\thesisacknowledgmenthead
374     \@mkboth{\thesisacknowledgmenthead}
375     {\thesisacknowledgmenthead}}
376   \addcontentsline{toc}{chapter}{\thesisacknowledgmenthead}
377   \begin{spacing}{1.1}}
378   {\nopagebreak\end{spacing} \par\nopagebreak}
```

```

379 \raggedleft
380 {\thesisacknowledgmentsignametype\thesisacknowledgmentsigname}
381 \*[10mm]
382 \raggedright
383 \thesisacknowledgmentsigplace
384 \newpage}

```

`\thesistitlepage` Sets the title page.

```

385 \newcommand{\thesistitlepage}{%
386 \thispagestyle{empty}
387 \begin{spacing}{1.5}
388 \begin{center}
389 \thesistitlebold \*[4mm]
390 by \*[4mm]
391 \thesisstudentbold \[
392 \ifx\undefined\@thesisauthoremail
393 \relax
394 \else
395 \if@litreview
396 \vspace{-8pt}
397 \texttt{\@thesisauthoremail}\[
398 \fi
399 \fi
400 \vspace{8mm}
401 \begin{center}
402 \includegraphics[width=5cm]{MonashCrest}
403 \end{center}
404 \textbf{\thesistypetypesize \thesistype} \[
405 \if@litreview
406 \relax
407 \else
408 Submitted by \@thesisauthor \[
409 \thesisfulfillment\ of the Requirements %\[
410 for the Degree of \[
411 \fi
412 \ifx\undefined\thesiscoursecode
413 \textbf{\thesisdegreetypesize \thesisdegree} \[
414 \else
415 \textbf{\thesisdegreetypesize \thesisdegree\ (\thesiscoursecode)} \[
416 \fi
417 \vspace{12mm}
418 \ifx\undefined\@thesisadvisor
419 \ClassError{cssethesis}{a thesisadvisor must be defined when
420 the litreview option is used}{\}
421 \else
422 Supervisor: \@thesisadvisor\[
423 \fi
424 \ifx\undefined\@thesisassocadvisor
425 \relax
426 \else
427 Associate Supervisor: \@thesisassocadvisor\[
428 \fi
429 \strut \vfill
430 \textbf{\Large \@thesisdepartment} \[

```

```

431 \textbf{\Large \@thesisuniversity} \\\[4mm]
432 \@thisismonth, \@thisisyear
433 \end{center}
434 \end{spacing}
435 \newpage}

```

`\thesiscopyrightpage` Creates the copyright page.

```

436 \newcommand{\thesiscopyrightpage}{%
437   \thispagestyle{empty}
438   \strut \vfill
439   \begin{center}
440     \begin{spacing}{2}
441       \copyright\ Copyright \\\ by \\\ \thesiscopyrightholder \\\ \@thisisyear
442     \end{spacing}
443   \end{center}
444   \vfill \strut
445   \newpage}

```

`thesisabstract` The abstract environment. Will only typeset the abstract using 1.5 spacing.

```

446 \newenvironment{thesisabstract}{%
447   \newpage
448   \addcontentsline{toc}{chapter}{Abstract}
449   \setlength{\unitlength}{1mm}
450   \begin{center}
451     \begin{spacing}{1.5}
452       \thesisitlebold \\\[7mm]
453     \end{spacing}
454     \begin{spacing}{1}
455       \@thesisauthor
456   \ifx\undefined\@thesisauthorpreviousdegrees
457   \\\
458   \else
459     , \@thesisauthorpreviousdegrees \\\
460   \fi
461   \ifx\undefined\@thesisauthoremail
462   \relax
463   \else
464   \texttt{\@thesisauthoremail}\\\
465   \fi
466     \@thesisuniversity, \@thisisyear \\\[7mm]
467     Supervisor: \@thesisadvisor \\\
468   \ifx\undefined\@thesisadvisoremail
469   \relax
470   \else
471   \texttt{\@thesisadvisoremail}\\\
472   \fi
473   \ifx\undefined\@thesisassocadvisor
474   \relax
475   \else
476   Associate Supervisor: \@thesisassocadvisor\\
477   \ifx\undefined\@thesisassocadvisoremail
478   \relax
479   \else
480   \texttt{\@thesisassocadvisoremail}\\\

```

```

481 \fi
482 \fi
483 \vspace*{7mm}
484 \textbf{Abstract} \\
485 \end{spacing}
486 \end{center}
487 \vspace{5mm}
488 \noindent}
489 \newpage

```

`\thesisdeclarationpage` Sets the declaration page.

```

490 \newcommand{\thesisdeclarationpage}{%
491 \begin{center}
492 \begin{spacing}{1.5}
493 \thesisitlebold
494 \end{spacing}
495 \end{center}
496 \vspace{20mm}
497 \begin{center}
498 {\bf Declaration}
499 \end{center}
500 \begin{spacing}{1}
501 I declare that this thesis is my own work and has not been
502 submitted in any form for another degree or diploma at any university
503 or other institute of tertiary education. Information derived from
504 the published and unpublished work of others has been acknowledged in
505 the text and a list of references is given.
506 \end{spacing}
507 \vspace{15mm}
508 \hfill \begin{minipage}{67mm}
509 \begin{spacing}{1}
510 \vspace{10mm}
511 \setlength{\unitlength}{1mm}
512 \begin{picture}(67,1)(0,0)
513 \line(1,0){67}
514 \end{picture} \\
515 \@thesisauthor \\
516 \today
517 \end{spacing}
518 \end{minipage}
519 \newpage}

```

`\thesissignaturepage` Sets the signature page.

```

520 \newcommand{\thesissignaturepage}{%
521 \begin{center}
522 \begin{spacing}{1.5}
523 \thesisitlebold
524 \end{spacing}
525 \end{center}
526 \vspace{20mm}
527 \begin{center}
528 {\bf \thesistype\ Acceptance}
529 \end{center}
530 \begin{spacing}{1}

```

```

531 This student's \thesistype, entitled
532 \textbf{\@thesistitle}
533 has been examined by the undersigned committee of
534 examiners and has received full approval for acceptance \thesisfulfillment\
535 of the requirements for the degree of \thesisdegree.
536 \end{spacing}
537
538 \vspace{15mm}
539 \hbox to \hsize{\hfill APPROVAL: \begin{minipage}[b]{67mm}
540 \setlength{\unitlength}{1mm}
541 \begin{picture}(67,-70)
542 \multiput(0,-2)(0,-10)
543 {\thesiscommitteesize}{\line(1,0){67}}
544 \end{picture}
545 \end{minipage} Chief Examiner}
546 \newpage}

```

```

\thesisshorttitlepage Sets the short title page
547 \newcommand{\thesisshorttitlepage}{%
548 \vbox to 4.1in{\vfil
549 \hbox to \hsize {Short Title: \thesisshorttitle \hfill
550 \@thesisauthorlastname, \thesisdegreeabbreviation\ \@thesisyear
551 % This little hack is to make it centered on the page.
552 \hspace{0.5in}}}
553 \newpage}

```

These are modified from L^AT_EX₂e book.cls so they make table of contents entries. They are also simplified by removing the two column and heading settings.

```

\listoffigures
554 \renewcommand{\listoffigures}{%
555 \chapter*{\listfigurename}%
556 \addcontentsline{toc}{chapter}{\listfigurename}%
557 \@starttoc{lof}
558 }

```

```

\listoftables
559 \renewcommand{\listoftables}{%
560 \chapter*{\listtablename}%
561 \addcontentsline{toc}{chapter}{\listtablename}%
562 \@starttoc{lot}
563 }

```

8 Mainmatter

We need to modify the listing of appendices in the toc. This does require a new conditional and changes to \appendix and \@chapter.

```

\if@appendix
564 \newif\if@appendix\@appendixfalse

```

`\appendix`

```
565 \renewcommand{\appendix}{\par
566   \setcounter{chapter}{0}%
567   \setcounter{section}{0}%
568   \renewcommand{\@chapapp}{\appendixname}%
569   \renewcommand{\thechapter}{\Alph{chapter}}
570   \@appendixtrue}
```

`\@chapter`

```
571 \def\@chapter[#1]#2{\ifnum \c@secnumdepth >\m@ne
572     \if@mainmatter
573       \refstepcounter{chapter}%
574       \typeout{\@chapapp\space\thechapter.}%
575       \if@appendix
576         \addcontentsline{toc}{chapter}%
577           {\appendixname\ \thechapter\ #1}%
578       \else
579         \addcontentsline{toc}{chapter}%
580           {\protect\numberline{\thechapter}\#1}%
581       \fi
582     \else
583       \addcontentsline{toc}{chapter}{\#1}%
584     \fi
585     \else
586       \addcontentsline{toc}{chapter}{\#1}%
587     \fi
588     \chaptermark{\#1}%
589     \addtocontents{lof}{\protect\addvspace{10\p@}}%
590     \addtocontents{lot}{\protect\addvspace{10\p@}}%
591     \if@twocolumn
592       \@topnewpage[\@makechapterhead{\#2}]%
593     \else
594       \@makechapterhead{\#2}%
595     \afterheading
596     \fi}
```

`\l@chapter` Some changes to the toc entries are required. Every entry should be followed by a dot leader. In the `book.cls`, chapter entries are not followed by a dot leader. This code corrects that.

```
597 \renewcommand{\l@chapter}[2]{%
598 % Some older versions of LaTeX2e (older than Dec. 1994) define \l@chapter
599 % using \newcommand instead of \newcommand*. If you have an error
600 % at this line, try removing the *.
601   \ifnum \c@tocdepth >\m@ne
602     \addpenalty{-\@highpenalty}%
603     \vskip 1.0em \@plus\p@
604     \setlength\@tempdima{1.5em}%
605     \begingroup
606       \parindent \z@ \rightskip \@pnumwidth
607       \parfillskip -\@pnumwidth
608       \leavevmode \bfseries
609       \advance\leftskip\@tempdima
610       \hskip -\leftskip
611       #1\nobreak%
```

```

612 % This line changed from \hfil
613     \leaders\hbox{$\m@th \mkern \@dotsep mu.\mkern \@dotsep mu$}\hfill
614     \nobreak\hbox to\@pnumwidth{\hss #2}\par
615     \penalty\@highpenalty
616 \endgroup
617 \fi}

```

9 Backmatter

`thesisauthorvita` This is really a stupid environment. All it does is enter a contents line, place the heading, and enter single spacing. The author must do all formatting for the page.

```

618 \newenvironment{thesisauthorvita}{%
619     \clearpage
620     \chapter*{\thesisvitahead
621         \@mkboth{\uppercase{\thesisvitahead}}
622                 {\uppercase{\thesisvitahead}}}
623     \addcontentsline{toc}{chapter}{\thesisvitahead}
624     \begin{spacing}{\thesisdefaultbaselinestretch}}
625 {\end{spacing} \par \vspace{20mm}
626     \noindent Permanent Address:
627     \begin{minipage}[t]{90mm}
628 {\@thesisdepartment\Monash University\Australia}
629     \end{minipage}
630     \par \vspace{15mm}
631     \noindent This \lowercase\expandafter{\thesistype} was
632     typeset with \LaTeXe\footnote{\LaTeXe{} is an extension of \LaTeX.
633     \LaTeX{} is a collection of macros for \TeX. \TeX{} is a
634     trademark of the American Mathematical Society. The macros used in
635     formatting this \lowercase\expandafter{\thesistype} were written
636     by Glenn Maughan and modified by Dean Thompson and David Squire of Monash University.
637     } by \@thesistypist.}

```

`thebibliography` This hasn't been changed much from `book.cls`. Only the addition of the `\addcontentsline`. In addition, the `\bibname` is changed to "References".

```

638 \renewcommand{\bibname}{References}
639 % Updated in v1.5 using more recent code from book.cls, 2000/05/19 v1.4b.
640 \renewenvironment{thebibliography}[1]
641     {\chapter*{\bibname%
642 % This line added.
643     \addcontentsline{toc}{chapter}{\bibname}
644     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
645     \list{\@biblabel{\@arabic\c@enumiv}}%
646         {\settowidth\labelwidth{\@biblabel{#1}}%
647         \leftmargin\labelwidth
648         \advance\leftmargin\labelsep
649         \@openbib@code
650         \usecounter{enumiv}%
651         \let\p@enumiv\@empty
652         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
653     \sloppy
654     \clubpenalty4000
655     \@clubpenalty \clubpenalty

```



```

656     \widowpenalty4000%
657     \sfcode'\.\@m}
658     {\def\@noitemerr
659       {\@latex@warning{Empty 'thebibliography' environment}}}%
660     \endlist}

```

10 Utility Functions

`\thesistime` This one computes the current time for the `thesisdraft` option.

```

661 \newcount\hour \newcount\minute
662 \hour=\time \divide \hour by 60
663 \minute=\time
664 \loop \ifnum \minute > 59 \advance \minute by -60 \repeat
665 \def\thesistime{\ifnum \hour<13 \number\hour:%
666                   \ifnum \minute<10 0\fi
667                   \number\minute
668                   \ifnum \hour<12 \ am\else \ pm\fi
669   \else \advance \hour by -12 \number\hour:%
670         \ifnum \minute<10 0\fi
671         \number\minute \ pm\fi}

```

`\timestamp`

```

672 \def\timestamp{\thesistime, \today}

```

`\@uppercase` `\@uppercase` is simply short hand to convert the contents of a macro to uppercase. It may not work under all circumstances, but does it's job for this style

```

673 \newcommand{\@uppercase}[1]{\expandafter\uppercase\expandafter{#1}}

```

`\@separator` `\@separator` will draw the rule used on both the title and abstract pages.

```

674 \newcommand\@separator{\vrule height.4pt depth0pt width3.5in}

```

`\@numberword`

```

675 \newcommand\@numberword[1]{\ifcase#1 zero\or one\or two\or three\or four\or five\or six\or sev

```