The tocbibind package*

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Abstract

The tocbibind package can be used to add document elements like a bibliography or an index to the Table of Contents. The package is designed to work with the four standard book, report, article and proc classes, and to a limited extent with the ltxdoc class. Results with other classes may be problematical. The package has been tested with the tocloft package, but has not been tested with other packages that change the definitions of the \chapter* or \section* commands.

The package requires the stdclsdv package.

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1 Introduction

Questions about adding the bibliography to the Table of Contents seem to pop up fairly regularly on the comp.text.tex newsgroup.

The tocbibind package provides a solution for automatically inserting references to a bibliography or an index, or other headed document elements into the Table of Contents. (tocbibind is meant to be shorthand for 'Table of Contents, Bibliography, Index, etc'). Portions of the package were developed as part of a class and package bundle for typesetting ISO standards [Wil96]. This manual is typeset according to the conventions of the LATEX DOCSTRIP utility which enables the automatic extraction of the LATEX macro source files [GMS94].

Section 2 describes the usage of the package. Commented source code for the package is in Section 3. The package requires the stdclsdv package to be available.

^{*}This file has version number v1.4a, last revised 2000/03/05.

2 The tocbibind package

The tocbibind package enables the titles of the Table of Contents, the List of Figures, the List of Tables, the Bibliography and the Index all to be added to the Table of Contents. By default, all of these document elements, if they exist, will be incorporated into the Table of Contents (ToC for short). Package options are available to switch off any of these inclusions.

- notbib Disables the inclusion of the Bibliography.
- notindex Disables the inclusion of the Index (inclusion of the Index of an ltxdoc class document is permanantly disabled).
- nottoc Disables the inclusion of the ToC.
- notlot Disables the inclusion of the List of Tables.
- notlof Disables the inclusion of the List of Figures.
- chapter Use chapter-level headings, if possible.
- section Use section-level headings, if possible.
- numbib Number the Bibliography heading (default is no number).
- numindex Number the Index heading (default is no number).
- other Use a non-traditional heading command. This option effectively requires the use of the \tocotherhead command.
- none Disables everything.

The package is designed to work with the standard IATEX document classes book, report, article, proc and ltxdoc class (which is based to a large extent on the article class). In the article, proc and ltxdoc classes IATEX uses the \section* heading style for the bibliography etc., while for the other two classes it uses the \chapter* heading style. tocbibind honours these conventions. However, if the package is used with another class (perhaps with a class for typesetting theses which has different conventions), then the chapter or section options can be used to select the appropriate style (but the class must define \chapter* and \@makeschapterhead, or \section* respectively).

The standard classes, except for ltxdoc, have a feature whereby the height of the title for an index is at a different height than any other in a document (latex bug 3126). The tocbibind package disables this feature. The disablement has the side effect that the \columnseprule and \columnsep lengths can be set via \setlength to alter the column seperation and the thickness of a rule between the two columns in the index. The effect of using the none option is to limit any changes to the single one of disabling this standard feature.

\tocotherhead

In the standard L^AT_EX classes the bibliography and index headings are either both defined in terms of the \chapter* command or in terms of the \section* command. The package assumes that any class, other than the standard classes already mentioned, will either use code from the standard classes for implementing the bibliography and other headings, or will use very similar code. Some classes

(and maybe packages) change the names of the heading commands. One example that I am aware of uses \classe instead of \subsection , and so on. If your document's headings are defined like this and the same heading level is used for the bibliography, etc., then you can use the other option and the $\tcotherhead\{\hat{headingname}\}$ command to cater for this. If your document uses \classe then put $\tcotherhead\{\classe\}$ in the preamble after loading the package. The package then assumes that the bibliography heading is defined in terms of $\classe\}$.

If you use the **\tocotherhead** command, then it overrides any chapter or section option.

\tocbibname

The package attempts to pick up the name for the Bibliography from the class definition. (Note that the article class and its derivatives stores the name text in the \refname whilst the book and report classes store the name in \bibname). This package uses \tocbibname to store the name of the bibliography.

\setindexname \settocname \setlotname \setlofname \settocbibname These commands set the heading texts for the index, ToC, list of tables and list of figures. When used with the three standard classes, the heading text is picked up from the \indexname, \contentsname, \listtablename and \listfigurename commands respectively. The heading texts can be changed by changing the standard commands, or by using \setindexname{ $\langle name \rangle$ }, and similarly for the other headings. Thus, the following two lines of code have the same effect:

\renewcommand{\listfigurename}{Figures}
\setlofname{Figures}

Note that these commands replace the \toc...name commands that were in version 1.1.

2.1 Numbering the List of Figures, etc.

Some authors like, or are required, to number the Listof headings. Some commands are provided to simplify doing this.

\simplechapter \simplechapterdelim \restorechapter In chaptered documents, the Listof headings are effectively typeset as \chapter*{}. The natural way to get numbered headings would be to typeset them as \chapter{} but this has the potential disadvantage that the word 'Chapter', or equivalent, would be written before the heading, which is probably not what is required. The \simplechapter[\(\lambe\) name\)] command modifies any subsequent \chapter commands so that the result looks like that of \chapter* except that the chapter number is put on the same line as the title and the value of \simplechapterdelim is typeset immediately after the number. By default, \simplechapterdelim is empty. If the optional \(\lambe\) argument is present, the \(\lambe\) argument is typeset before the number. For example:

\renewcommand{\simplechapterdelim}{:}
\simplechapter[Chap]

will result in \chapter{First chapter} being typeset like:

Chap 1: First chapter.

The \restorechapter command resets any subsequent \chapter commands to their default behaviour.

\tocchapter \tocsection

Internally, the Listof commands in the tocbibind package use \toc@chapter

for typesetting the Listof headings in chaptered documents and \toc@section for non-chaptered documents. The \tocchapter command modifies the \toc@chapter command to use a 'simple chapter' heading. The \tocsection command modifies \toc@section to typeset using \section instead of \section*.

For example, to get a numbered List of Figures heading in a chaptered document, put the following in the preamble:

```
\renewcommand{\listoffigures}{\begingroup
  \tocchapter
  \tocfile{\listfigurename}{lof}
\endgroup}
```

while to get a numbered List of Tables in a non-chaptered document:

```
\renewcommand{\listoftables}{\begingroup
  \tocsection
  \tocfile{\listtablename}{lot}
\endgroup}
```

More generally, to number the Table of Contents in a (non-)chaptered document you can do:

```
\renewcommand{\tableofcontents}{\begingroup
  \tocsection
  \tocchapter
  \tocfile{\contentsname}{toc}
\endgroup}
```

The \begingroup \endgroup pairing keeps the changes local.

2.2 Package Defined Listof...

There are packages, such as listings and ccaption, that provide new Listof lists. These can be handled by the tocbibind package in a similar manner to the usual Listofs. Two examples are given below.

The listings package version 0.2 provides a \lstlistoflistings command to print a list of listings. The header name for this list is in \lstlistingname and the listing file has the extension lol. This can be treated just like the \listoffigure, etc., commands. To add the List of Listings header to the ToC do:

```
\renewcommand{\lstlistoflistings}{\begingroup
  \tocfile{\lstlistingname}{lol}

\endgroup}

and to number the Listof heading do:
  \renewcommand{\lstlistoflistings}{\begingroup
  \tocsection
  \tocchapter
  \tocfile{\lstlistingname}{lol}
  \endgroup}
```

The ccaption package enables authors to define new kinds of floats (together with their captions) and Listof for each new kind of float. The command to define a new float is essentially $\ensuremath{\mbox{newfloatenv}}{\langle fenv\rangle}{\langle ext\rangle}{\langle capname\rangle}$, where $\langle fenv\rangle$ is the name of the new float environment and $\langle ext\rangle$ is the file extension for the listof file. The typesetting of the Listof listing is called by the command $\ensuremath{\mbox{listfloats}}{\langle fenv\rangle}{\langle fenv\rangle}{\langle heading\rangle}$, where $\langle fenv\rangle$ is the name of the float environment and $\langle heading\rangle$ is the heading text for the Listof. For example, a new float environment for diagrams could be defined via

\newfloatenv{diagram}{dia}{Diagram}, and the Listof called for by \listfloats{diagram}{List of Diagrams}.

In this case, to add the 'List of Diagrams' to the ToC it is necessary to define a new list of command, and use this in place of the \listfloats{...}{...}. For the diagram example this could be (unnumbered):

```
\newcommand{\listofdiagrams}{\begingroup
  \tocfile{List of Diagrams}{dia}
\endgroup}

and correspondingly for a numbered version:
\newcommand{\listofdiagrams}{\begingroup
  \tocsection
  \tocchapter
  \tocfile{List of Diagrams}{dia}
```

2.3 Abstracts

\endgroup}

On rare occasions a publisher may want an abstract listed in the ToC. This package does not provide for that, partly because it is easier to do than the other headings. Just proceed along the lines below, where section might have to be chapter.

```
\begin{abstract}
\addcontentsline{toc}{section}{\abstractname}
... rest of the abstract
```

A question that arises from time to time on comp.text.tex is how to have a fullwidth abstract in a two column document. The code:

```
\documentclass[twocolumn]{article}
% all in twocolumn mode
...
\begin{abstract} ... \end{abstract}
```

puts the abstract into one of the columns. The trick is to start the document in single column mode and at the appropriate place issue a \twocolumn command with the abstract forming the optional argument to the command. For example:

```
\documentclass{article}
```

¹On ctt Donald Arseneau pointed out the desireability of the @wocolumnfalse environment.

```
% single column mode
...
\twocolumn[\begin{@twocolumnfalse} % one column typesetting
  \maketitle
    ...
  \begin{abstract}
    ...
  \end{abstract}
    ...
  \end{@twocolumnfalse}] % end of one column typesetting
... rest in two column mode
```

In spite of the appearance of the @ symbol in the above, it is not necessary to enclose it all in a \makeatletter and \makeatother pair.

If you want, for example, to have the abstract treated like any other numbered part of the document or to change other aspects of the abstract environment, then you will have to do some work on your own. To save you looking it up, the default code for the abstract environment is:

```
\if@titlepage
  \newenvironment{abstract}{%
    \titlepage
    \null\vfil
    \@beginparpenalty\@lowpenalty
    \begin{center}%
      \bfseries \abstractname
      \@endparpenalty\@M
    \end{center}}%
    {\par\vfil\null\endtitlepage}
  \newenvironment{abstract}{%
    \if@twocolumn
      \section*{\abstractname}%
    \else
      \small
      \begin{center}%
        {\bfseries \abstractname\vspace{-.5em}\vspace{\z0}}%
      \end{center}%
      \quotation
    fi}%
  {\if@twocolumn\else\endquotation\fi}
\fi
```

This code is from the report and article classes; the book class does not have an abstract environment.

3 The package code

Announce the name and version of the package, which requires LATEX $2_{\mathcal{E}}$ and the stdclsdv package.

```
1 \langle *usc \rangle
```

```
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{tocbibind}[2000/03/05 v1.4a extra ToC listings]
4 \RequirePackage{stdclsdv}
```

\PRWPackageNote \PRWPackageNotine

These two commands write a package Note to the terminal and log file. Use as $\PRWPackageNote{\langle package\ name \rangle}{\langle note\ text \rangle}$. The NoLine version does not show the line number. The commands are intermediate between the kernel \PackageWarning and \PackageInfo commands. I have provided them as other packages (of mine) may also incorporate them. The code is based on lterror.dtx.

```
6 \providecommand{\PRWPackageNote}[2]{%
7  \GenericWarning{%
8   (#1)\@spaces\@spaces\@spaces\@spaces
9  }{%
10   Package #1 Note: #2%
11  }%
12 }
13 \providecommand{\PRWPackageNoteNoLine}[2]{%
14  \PRWPackageNote{#1}{#2\@gobble}%
15 }
16
```

Issue warning(s) if there are no recognized sectional divisions and prepare to skip the rest of the package code.

```
17 \ifSCDnodivs

18 \PackageWarning{tocbibind}%

19 {I don't recognize any sectional divisions.

20 I hope you have used the 'other' option}

21 \renewcommand{\SCDquit}{\endinput}

22 \fi

23

24 \ifSCDknownclass\else

25 \PackageWarning{tocbibind}%

26 {I don't recognize the class but I'll do my best}

27 \fi

28
```

\if@inltxdoc

This is used as a flag for the ltxdoc class. This has a particular kind of index that I am not going to mess with.

```
29 \newif\if@inltxdoc  
30 \@ifclassloaded{ltxdoc}{\@inltxdoctrue}{\@inltxdocfalse}  
31
```

\if@bibchapter

Used for knowing whether to use chapter or section style headings.

```
32 \newif\if@bibchapter\@bibchapterfalse
33 \ifSCDchapter
34 \@bibchaptertrue
35 \fi
36
```

\if@dotocbib A set of booleans for deciding what is to go into the ToC. By default add every-thing.
\if@dotoctoc 37 \newif\if@dotocbib\@dotocbib\rue

\if@dotoclot \if@dotoclof

```
38 \newif\if@dotocind\@dotocindtrue
                39 \newif\if@dotoctoc\@dotoctoctrue
                40 \newif\if@dotoclot\@dotoclottrue
                41 \newif\if@dotoclof\@dotocloftrue
 \if@donumbib A set of booleans for deciding whether or not to produce numbered headings
                (default is to do unnumbered headings).
\if@donumindex
                43 \newif\if@donumbib\@donumbibfalse
                44 \newif\if@donumindex\@donumindexfalse
                   Now we can do the options. Most of them are easy.
                46 \DeclareOption{section}{\@bibchapterfalse}
                47 \DeclareOption{notbib}{\@dotocbibfalse}
                48 \DeclareOption{notindex}{\@dotocindfalse}
                49 \DeclareOption{nottoc}{\@dotoctocfalse}
                50 \DeclareOption{notlot}{\@dotoclotfalse}
                51 \DeclareOption{notlof}{\@dotocloffalse}
                52 \DeclareOption{numbib}{\@donumbibtrue}
                53 \DeclareOption{numindex}{\@donumindextrue}
                The chapter option needs to check whether or not the chapter heading commands
                are defined. If they are not, then go with the section level headings.
                55 \DeclareOption{chapter}{%
                    \ifx\chapter\undefined
                57
                       \@bibchapterfalse
                58
                       \PackageWarning{tocbibind}%
                                      {Chapters are undefined, using section instead}
                59
                60
                       \ifx\@makeschapterhead\undefined
                61
                62
                         \@bibchapterfalse
                         \PackageWarning{tocbibind}%
                63
                                        {Makeschapterhead undefined, using section instead}
                64
                       \else
                65
                          \@bibchaptertrue
                66
                       \fi
                67
                    \fi}
                68
                69
                   The other option makes \SCDquit a no-op and cancels any chapter based pro-
                70 \DeclareOption{other}{\renewcommand{\SCDquit}{}}
                                         \@bibchapterfalse}
                71
                   The none option turns everything off.
                72 \DeclareOption{none}{%
                73 \@dotocbibfalse
                    \@dotocindfalse
                74
                75
                    \@dotoctocfalse
                    \@dotoclotfalse
                     \@dotocloffalse
```

78

\@donumbibfalse \@donumindexfalse

```
80 }
                    Process the options now, and then guit if necessary.
                 81 \ProcessOptions\relax
                 82 \SCDquit
                    Issue a note about the heading style being used.
                 84 \if@bibchapter
                 85 %% \PackageWarning{tocbibind}{Using chapter style headings}
                     \PRWPackageNoteNoLine{tocbibind}{Using chapter style headings}
                 87 \else
                 88 %% \PackageWarning{tocbibind}{Using section or other style headings}
                     \PRWPackageNoteNoLine{tocbibind}{Using section or other style headings}
                 90 \fi
                    Ensure that the index is not processed if it is an ltxdoc class.
                 91 \if@inltxdoc \@dotocindfalse \fi
   \@tocextra \@tocextra is the internal command to store the heading command name.
                 \tocotherhead{\langle name \rangle} is the user command to set the heading command
\tocotherhead
                 \langle name \rangle (without the backslash). The default is section.
                 93 \newcommand{\@tocextra}{section}
                 94 \newcommand{\tocotherhead}[1]{\renewcommand{\@tocextra}{#1}}
  \prw@mkboth
                 Utility macros, as the code that they represent gets used several times over. They
                 deal with marking for page headers (code taken from classes.dtx), and adding
 \toc@section
 \toc@chapter
                 starred sectional headings to the ToC.
                     \prw@mkboth{\langle text \rangle} is shorthand for \@mkboth{\langle left \rangle}{\langle right \rangle} as called by
\toc@headstar
                 sectional headings.
                 96 \providecommand{\prw@mkboth}[1]{\@mkboth{%
                     \MakeUppercase{#1}}{\MakeUppercase{#1}}}
                    \t coesection{\langle sec \rangle} {\langle text \rangle}  is a generalised version of \s ec * {\langle text \rangle}  which
                 also makes an entry of \langle text \rangle into the ToC, where \langle sec \rangle is the name of a sectional
                 division (with no backslash). \tco@headstar{\langle sec \rangle}{\langle text \rangle} is similar except that
                 it makes no entry into the ToC.
                 99 \newcommand{\toc@section}[2]{%
                      \@nameuse{#1}*{#2\prw@mkboth{#2}}
                100
                      \addcontentsline{toc}{#1}{#2}}
                101
                102
                103 \newcommand{\toc@headstar}[2]{%
                      \@nameuse{#1}*{{#2}}}
                 \toc@chapter{\langle text \rangle} is equivalent to \toc@chapter*{\langle text \rangle} except that it makes an
                 entry into the ToC.
                106 \newcommand{\toc@chapter}[1]{%
                      \chapter*{#1\prw@mkboth{#1}}
                108
                      \addcontentsline{toc}{chapter}{#1}}
                109
```

This holds the text for the Bibliography heading. We try and get the text from \tocbibname the class (either \bibname or \refname). 110 \ifx\bibname\undefined

```
\ifx\refname\undefined
111
       \newcommand{\tocbibname}{References}
112
113
114
       \newcommand{\tocbibname}{\refname}
     \fi
115
116 \else
117
     \newcommand{\tocbibname}{\bibname}
118 \fi
119
```

\setindexname \settocname \setlotname \setlofname

The remaining heading texts are simpler as we only need to check if their respective names are defined in the class. Note that these commands in version 1.2 have been changed from version 1.1 in order to integrate with the tocloft package (which operates with the \contentsname etc commands).

```
\settocbibname _{120} \providecommand{\indexname}{Index}
                121 \newcommand{\setindexname}[1]{\renewcommand{\indexname}{#1}}
               122 \providecommand{\contentsname}{Contents}
                123 \newcommand{\settocname} [1] {\renewcommand{\contentsname} \{#1\}}
                124 \providecommand{\listtablename}{List of Tables}
                125 \newcommand{\setlotname}[1]{\renewcommand{\listtablename}{#1}}
               126 \providecommand{\listfigurename}{List of Figures}
                127 \newcommand{\setlofname}[1]{\renewcommand{\listfigurename}{#1}}
               128 \newcommand{\settocbibname}[1]{\renewcommand{\tocbibname}{#1}}
                129
```

The rest is just hacking the various environments and commands from classes.dtx.

Redefine thebibliography, but only if requested. thebibliography

```
130 \if@dotocbib
     \renewenvironment{thebibliography}[1]
131
         {\if@bibchapter
132
            \if@donumbib
133
134
              \chapter{\tocbibname}
135
136
              \toc@chapter{\tocbibname}
            \fi
137
          \else
138
            \if@donumbib
139
140
              \Onameuse{\Otocextra}{\tocbibname}
141
              \toc@section{\@tocextra}{\tocbibname}
143
           \fi
144
          \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
145
```

thebibitemlist

Just as a matter of style, I have extracted the list making code from the definition of the thebibliography. It might also make it easier for someone to change the list environment. The code is a straight copy from classes.dtx.

```
\newenvironment{thebibitemlist}[1]{
147
       \list{\@biblabel{\@arabic\c@enumiv}}%
148
149
            {\settowidth\labelwidth{\@biblabel{#1}}%
              \leftmargin\labelwidth
150
              \advance\leftmargin\labelsep
151
             \@openbib@code
152
             \usecounter{enumiv}%
153
             \let\p@enumiv\@empty
154
              \renewcommand\theenumiv{\@arabic\c@enumiv}}%
155
       \sloppy
156
       \clubpenalty4000
       \@clubpenalty \clubpenalty
158
       \widowpenalty4000%
159
       \sfcode'\.\@m}
160
      {\def\@noitemerr
161
        {\@latex@warning{Empty 'thebibliography' environment}}%
162
163
        \endlist}
164 \fi
```

theindex

In an earlier version of this package, for reasons that I didn't understand, I had to add/remove some vertical space around the Index heading to make its height match other chapter/section headings. In an unrelated thread on the comp.text.tex newsgroup, Donald Arseneau pointed out that this effect was a known feature of the standard classes and recorded as latex bug 3126, and was caused by misplaced topskips. The following removes this feature for all except the doc class.

The first bit of code is a copy from classes.dtx.

```
166 \if@inltxdoc\else
167 \renewenvironment{theindex}%
168 {\if@twocolumn
169 \@restonecolfalse
170 \else
171 \@restonecoltrue
172 \fi
```

This next bit is where we make the package changes. Note that in the default definition the values for \columnseprule and \columnsep were set at this point to be Opt and 35pt respectively. They are not set in this definition so that they can be adjusted by the user, if necessary, before starting the environment.

```
173
        \if@bibchapter
174
           \if@donumindex
175
              \refstepcounter{chapter}
176
             \twocolumn[\vspace*{2\topskip}%
177
                         \@makechapterhead{\indexname}]%
              \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
178
179 %%
                \prw@mkboth{\indexname}
             \chaptermark{\indexname}
180
           \else
181
              \if@dotocind
182
                \twocolumn[\vspace*{2\topskip}%
183
                           \@makeschapterhead{\indexname}]%
184
185
                \prw@mkboth{\indexname}
186
                \addcontentsline{toc}{chapter}{\indexname}
187
              \else
```

```
\twocolumn[\vspace*{2\topskip}%
188
                            \@makeschapterhead{\indexname}]%
189
                \@mkboth{\MakeUppercase\indexname}%
190
                        {\MakeUppercase\indexname}%
191
              \fi
192
           \fi
193
         \else
194
            \if@donumindex
195
              \twocolumn[\vspace*{-1.5\topskip}%
196
197
                         \@nameuse{\@tocextra}{\indexname}]%
198 %%
                \prw@mkboth{\indexname}
              \prw@mkboth{\csname the\@tocextra\endcsname \quad\indexname}
199
            \else
200
              \if@dotocind
201
                \twocolumn[\vspace*{-1.5\topskip}%
202
                            \toc@headstar{\@tocextra}{\indexname}]%
203
                \prw@mkboth{\indexname}
                \addcontentsline{toc}{\@tocextra}{\indexname}
205
206
                \twocolumn[\vspace*{-1.5\topskip}%
207
                            \toc@headstar{\@tocextra}{\indexname}]%
208
                \prw@mkboth{\indexname}
209
210
              \fi
211
           \fi
Now we are back to the original code.
      \thispagestyle{plain}\parindent\z@
213
      \parskip\z@ \@plus .3\p@\relax
214
      \let\item\@idxitem}
215
      {\if@restonecol\onecolumn\else\clearpage\fi}
216
217 \fi
218
```

\toc@start These two macros deal with the start and finish of the \tableofcontents and \toc@finish friends by adjusting the column settings if need be.

```
219 \newcommand{\toc@start}{%
     \ifSCDchapter
220
221
       \if@twocolumn
222
          \@restonecoltrue\onecolumn
223
       \else
224
          \@restonecolfalse
       ۱fi
225
     \fi}
226
227
228 \newcommand{\toc@finish}{%
     \ifSCDchapter
       \if@restonecol\twocolumn\fi
230
231
     \fi}
232
```

\tocfile The code for \tableofcontents, \listoftables and \listoffigures is virtually identical in each case, except for the heading text. \tocfile embodies the common code. This is virtually a parameterized copy from classes.dtx, except

that it handles the differences between the article class and the other two, and incorporates the code for additions to the ToC. It is a useful hook if any other package wants to extend tocbibind for other kinds of listings.

The command is $\tcfile{\langle head-text\rangle}$ { $\langle file-extension\rangle$ }, where $\langle head-text\rangle$ is the heading (e.g., List of Figures) and $\langle file-extension\rangle$ is the file extension (e.g., lof).

```
233 \newcommand{\tocfile}[2]{%
                  234 \toc@start
                   The next bit is for the heading changes.
                       \if@bibchapter
                          \toc@chapter{#1}
                  236
                  237
                       \else
                          \toc@section{\@tocextra}{#1}
                  238
                  239
                   And finish up with a parameterized call to start the listing and tidy up.
                       \@starttoc{#2}
                       \toc@finish}
                  241
                  242
\tableofcontents If requested, we redefine this command, using \tocfile to do all the work for us.
                  243 \if@dotoctoc
                       \renewcommand{\tableofcontents}{%
                  244
                          \tocfile{\contentsname}{toc}
                  246
                  247 \fi
                  248
   \listoftables This is almost identical to the code for \tableofcontents
                  249 \if@dotoclot
                       \renewcommand{\listoftables}{%
                  250
                  251
                          \tocfile{\listtablename}{lot}
                  252
                  253 \fi
  \listoffigures This is almost identical to the code for \tableofcontents
                  255 \if@dotoclof
                  256
                       \renewcommand{\listoffigures}{%
                  257
                          \tocfile{\listfigurename}{lof}
                  258
                       }
                  259 \fi
                  260
```

\simplechapter \restorechapter \simplechapterdelim The \simplechapter command modifies the \@makechapterhead command to result in an appearance akin to \@makeschapterhead, and is based on the latter. The \restorechapter command restores everything back to its original state. The value of \simplechapterdelim is appended to the chapter number before the title text.

```
261 \newcommand{\simplechapter}[1] [\@empty] {%
262 \let\@tbiold@makechapterhead\@makechapterhead
263 \renewcommand{\@makechapterhead}[1] {%
```

```
\vspace*{50\p@}%
            264
                    {\parindent \z@ \raggedright
            265
                     \normalfont
            266
                     \interlinepenalty\@M
            267
                     \Huge\bfseries #1\space\thechapter\simplechapterdelim\space
            268
                        ##1\par\nobreak
            269
                     \vskip 40\p@
            270
                   }}
            271
            272 }
            273 \newcommand{\restorechapter}{%
                  \let\@makechapterhead\@tbiold@makechapterhead
            275 }
            276 \newcommand{\simplechapterdelim}{}
            277
\tocchapter These two commands modify the \toc@chapter and \toc@section commands to
\tocsection make numbered Listof headings.
            278 \newcommand{\tocchapter}{%
            279
                  \simplechapter
                  \renewcommand{\toc@chapter}[1]{\chapter{##1}}
            280
            281 }
            282 \newcommand{\tocsection}{%
                  \renewcommand{\toc@section}[2]{\@nameuse{##1}{##2}}
            284 }
            285
                 The end of this package.
            286 \langle /usc \rangle
```

References

[GMS94] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. Addison-Wesley Publishing Company, 1994.

[Wil96] Peter R. Wilson. LaTeX for standards: The LaTeX package files user manual. NIST Report NISTIR, June 1996.