# A CD Cover Class

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#### 1 Introduction

The purpose of this class is to print CD covers. The main design line is allowing the creation of labels with minimum effort, without restraining the freedom to customise. There is also some support for multiple cover printing. Since version 1.1, slim CD boxes are supported.

Each CD cover is created by a number of commands which set the content of the front cover, back cover, track lists etc. After everything is ready, additional commands actually generate the covers. This is a very simple example:

```
\documentclass{cd}
\begin{document}

\covertext{
The Artist\\
\bfseries The Title
}

\leftspine{THE ARTIST}
\centerspine{THE TITLE}

\lefttracklist{
\track Song 1
\track Song 2
\track Song 3
}

\leftinfo{Words and Music by The Artist}

\makecover\par
\makeback\par
\end{document}
```

By compiling the file above, you will obtain your first CD cover. Using \makeslimcover instead of \makecover and \makeback, you will obtain a single cover for a slim CD box.

Equivalently, you can create a file CD.dat containing the lines between \begin{document} and \makecover and compile with LATEX the file CD.tex (or slimCD.tex). This is a better mechanism—each CD should have its own data (.dat) file, which is run through the driver file CD.tex or the more powerful list

mechanism described below. This also allows to set some parameters one for all (for instance, the font family) in the driver file. My driver file, for instance, is as follows (see below for the non-standard commands):

```
\documentclass[a4paper]{cd}
\usepackage[latin1]{inputenc}
\usepackage{avant}
\renewcommand\rmdefault{\sfdefault}
\onecorrection{.2}
\begin{document}
\makeCD
\end{document}
```

The CD class loads the article class, so commands like \Large or \smallskip are available. However, the CD class provides its own precise size-switching commands, and for greater accuracy it is advisable to use LATEX's \\[ $\langle vspace \rangle$ ] mechanism in order to generate vertical spacing.

Note that the class uses heavily the rotating package, so you must convert the resulting dvi file into PostScript®, or use directly pdflatex.

#### 2 The Text Commands

The content of a CD cover are set using the self-explaining \covertext, \backtext, \insidetext, \leftspine, \centerspine, \rightspine, \lefttracklist, \rightspine and \rightspine and \rightspine are ignored for slim covers). Note that by default the material contained in \covertext, \backtext and \insidetext is bottomaligned, and the arguments of the spine commands must not contain line breaks. The left and right track lists should use the \track command, which inserts a \par and an automatically numbered box with the track number. Should you need to set manually the track number, use \setindex{\langle n\rangle}. The text contained in \leftinfo and \rightinfo is bottom-aligned just under the respective track lists. Note that if the right information or track list box is empty, the left one will span across the whole cover. By default everything is typeset with no justification, and no paragraph indentation. One tenth of the current baseline skip is inserted between paragraphs.

In extreme cases you may want to create different spines (e.g., for R.E.M.'s Fables Of The Reconstruction); the \leftspinebis, \centerspinebis and \rightspinebis commands allows you to insert different content into the "back" spine.

# 3 The Graphic Commands

In the case you want to fill the cover or the inside of your CD with a picture, the commands \covergraphics and \insidegraphics work like \covertext and \insidetext, but they create no border (as opposed to the standard 1 cm border for text).

#### 4 The Font Commands

The CD class provides some simple commands for switching the font dimension and line spacing. The command  $\{h\{\langle height\rangle\}\}\$  sets the font height to the given number of points (line spacing is not affected), while  $\{height\}\}\{\langle baselineskip\rangle\}\$  sets both the font height and the baseline skip (usually 6/5 of the font height will work). Note that you can just write  $\{h\}$  in order to switch to a 7 point font, and that the  $\{h\}$  command always sets  $\{h\}$  to 1/10 of the current baseline skip, so  $\{h\}$  will always space a little more than  $\{h\}$ .

When you issue a \newcd command, all fonts are reset to their default values. But there are a number of self-explaining commands, i.e., \coverfont, \backfont, \insidefont, \spinefont, \tracklistfont, \infofont and \indexfont, that allow to change the font assigned to a part of the cover. In fact, they are just one-argument macros whose arguments are expanded just before the corresponding text commands, and can contain other formatting parameters.

#### 5 The Cover Creation Commands

Before setting the content of the cover, the \newcd command takes care of resetting everything to default values. In particular, \backtext is the same as \covertext (unless you change it explicitly), so usually you do not need to set the former (note that, of course, this does *not* happen with \covergraphics). Analogously, \backfont is the same as \coverfont.

Once everything is set up, the \makecover and \makeback commands will create a cover and a back cover using the data set so far, whereas the \makeslimcover will create a slim cover. Both command have an optional argument that can contain any of the letters lrtb (left, right, top, bottom), which create the respective crop marks (note that the argument must be enclosed in brackets). The default value is lrtb. The possibility of partially eliminating crop marks is particularly useful when stacking several covers in the same sheet.

It is possible to create a single LATEX document containing a CD cover, but it is usually more useful to create a data file containing all CD-specific command, and include it from a "driver" file, containing the \makeCD or the \makeslimCD command. With no argument, it checks for the existence of a jobname.dat file (where jobname is the root of the LATEX file under compilation—e.g., CD.dat when compiling CD.tex). If such a file exists, it is input and then the (slim) CD cover is generated. Otherwise, the user is asked for a data file name (the CD class will try automatically to append the .dat extension to the name), which is read and processed. Of course, the optional argument (which, note again, must be enclosed in brackets) can be used to specify a data file name.

Having a database of data files is particularly useful when using the \makelist or the \makelist commands, which process an entire list of CDs, printing one cover (or two back covers) per page; the crop marks are suitably aligned so to minimise the cutting effort. The CD list must be contained in a list file, one data file name per line. With no argument, \makelist and \makeslimlist check for the existence of a CD.lst file. If it exists, it is input; otherwise, the user is asked for a list file name (the CD class will try automatically to append the .lst extension to the name), which is read and processed. Again, the optional argument can be used to specify a list file name.

## 6 The Options

You can pass to the CD class all the options of the article class (e.g., paper size). Moreover, there are options aligncovertop, aligninsidetop, alignbacktop and aligntop (the last one resumes the first three ones), and analogously aligncovercenter, etc. that allow to change the default alignment behaviour. The covergraphics option lets you use the entire cover area (instead of a centered  $10\,\mathrm{cm}\times10\,\mathrm{cm}$  square). Finally, the alignspine option forces vertical centring of the spine text on the "real" height of the box involved, rather than on the height of a generic upper case character. This is not usually what you want, since, e.g., accents can lead to ugly results. Experiment.

## 7 Getting Obsessed

PostScript fonts usually are set up in such a way that the metric of all digits is the same, regardless of the actual appearance. This (in particular with sansserif fonts) can lead to a very ugly alignment of two-digit track numbers in which either the first or the last digit is a 1. The solution is to put in the preamble a  $\operatorname{numbers} \{fraction\}$  command: the positioning of two-digit numbers either starting or ending with 1 will be corrected by the given fraction of the width of a 1. For instance,  $\operatorname{necorrection}\{.2\}$  works great for AvantGarde. The values for other fonts must be set by trial-and-error.

### 8 The Code

First of all we manage all options. This is done with a \newif for alignspine, and by defining suitably some macros representing the alignment option for the cover, inside and back text. Default is b. All options we do not process are passed to the article class.

```
1 (*class)
2 \newif\if@lignspine
3 \@lignspinefalse
5 \DeclareOption{alignspine}{\@lignspinetrue}
7 \def\@ligncover{b}
8 \def\@ligninside{b}
9 \def\@lignback{b}
11 \DeclareOption{aligncovertop}{\def\@ligncover{t}}
12 \DeclareOption{aligninsidetop}{\def\@ligninside{t}}
13 \DeclareOption{alignbacktop}{\def\@lignback{t}}
14
15 \DeclareOption{covergraphics}{\def\@lignback{t}}
16
17 \DeclareOption{aligntop}%
     18
19
20 \DeclareOption{aligncovercenter}{\def\@ligncover{c}}
21 \DeclareOption{aligninsidecenter}{\def\@ligninside{c}}
```

```
22 \DeclareOption{alignbackcenter}{\def\@lignback{c}}
24 \DeclareOption{aligncenter}%
                       {\ExecuteOptions{aligncovercenter,aligninsidecenter,alignbackcenter}}
25
27 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
29 \ProcessOptions\relax
 Now we load the article class and the rotating package, which is fundamental
in typesetting the spine text.
 30 \LoadClass{article}
31 \RequirePackage{rotating}
The \onecorrection command defines a the fraction used for correcting the align-
 ment of 1's. The default is 0.
33 \onecorrection{0}
Now we have all the font and text declaration commands. They just define a
certain macro to be their argument.
 34 \DeclareRobustCommand*\coverfont[1]{\def\coverf@nt{#1}}
35 \DeclareRobustCommand*\backfont[1] {\def\backf@nt{#1}}
36 \DeclareRobustCommand*\insidefont[1]{\def\insidef@nt{#1}}
37 \DeclareRobustCommand*\spinefont[1]{\def\spinef@nt{#1}}
38 \DeclareRobustCommand*\tracklistfont[1]{\def\tracklistf@nt{#1}}
39 \DeclareRobustCommand*\infofont[1] {\def\infof@nt{#1}}
40 \DeclareRobustCommand*\indexfont[1]{\def\indexf@nt{#1}}
41
42 \end{Algorithm} \begin{tabular}{l} 42 \end{tabular} \begin{ta
43 \DeclareRobustCommand{\righttracklist}[1]{\def\righttr@cklist{#1}}
45 \ensuremath{\mbox{\mbox{$\sim$}}} [1] {\ensuremath{\mbox{\mbox{$\sim$}}}} $
46 \DeclareRobustCommand{\covertext}[1]{\def\c@vertext{#1}}
47 \DeclareRobustCommand{\backtext}[1]{\def\b@cktext{#1}}
48 \ensuremath{\mbox{\mbox{$1$}}} [1] {\mbox{\mbox{\mbox{$1$}}}} ext{\#1}} 
51 \DeclareRobustCommand{\insidegraphics}[1]{\def\insid@text{#1}\def\insid@graphics{}}
53 \end{tabular} \label{leftspine} \end{tabular} $$11_{\end{tabular}}
54 \end{area} $$ 1] {\end{area} in $\mathbb{1}_{\end{area}} $$ 1) $$ $$ 2.5 $$ $$ 2.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3.5 $$ 3
55 \ensuremath{\mbox{\mbox{$1$}}} [1] {\ensuremath{\mbox{\mbox{\mbox{$1$}}}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{\mbox{$1$}}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} [2] {\ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}} \ensuremath{\mbox{$1$}}} \ensuremath{\mbox{$1$}} \en
56 \ensuremath{\leftspinebis}[1] {\def\leftspin@bis{\#1}} \\
 57 \DeclareRobustCommand*{\centerspinebis}[1]{\def\centerspin@bis{#1}}
 58 \DeclareRobustCommand*{\rightspinebis}[1]{\def\rightspin@bis{#1}}
 We do not want any lineskip, as stacked covers should not be separated by any
space. Analogously, we want no margins, no indentation and no hyphens. Offsets
will be set command by each command.
 59 \evensidemargin=0cm
60 \oddsidemargin=0cm
61 \topmargin=0cm
62 \headheight=0cm
63 \headsep=0cm
```

```
64 \footskip=0cm
65 \textwidth=\paperwidth
66 %\advance\textwidth by -3cm
67 \textheight=\paperheight
68 %\advance\textheight by -3cm
69
70 \lineskip=0pt
71 \lineskiplimit=0pt
72 \parskip=0pt
73 \parindent=0pt
74 \hyphenpenalty=10000
```

We set the unit for the picture environment to 1mm, and prepare a number of lengths which will be useful in aligning track numbers and spine text. \squ@re holds the side length of the square framing the track numbers. \h@nging is its hanging amount. \@hstrip and \@wstrip are used when aligning the spine. \winf@ and \wtr@cklist are the width of the information and tracklist minipages.

```
75 \setlength{\unitlength}{1mm}
76 \newlength{\squ@re}
77 \newlength{\Qtemp}
78 \newlength{\Qhenging}
79 \newlength{\Qhenging}
80 \newlength{\Qwstrip}
81 \newlength{\winf@}
82 \newlength{\winf@}
83 \newlength{\onec@rrection}
```

The \track command typesets a hanging framed box with a small number inside. The number is given by a counter which is reset to 1 at each \makeback, and can be changed manually with the \setindex command. The alignment inside the small box will be corrected for numbers either starting or ending with a 1 by the fraction of the width of 1 specified with the \onecorrection command.

```
84 \newcounter{tr@ckindex}
85 \end{tabular} {\tt S5 \end{tabular} [1] {\tt Setcounter\{tr@ckindex\}\{\#1\}\}} }
86
87 \DeclareRobustCommand*{\track}{%
       \par
88
       \let\@firstdigit=\@empty
89
90
       \setlength{\onec@rrection}{Opt}%
       \settowidth{\@temp}{\indexf@nt1}
       \expandafter\@tfor \expandafter\@digit
         \expandafter:\expandafter=\number\value{tr@ckindex}\do {%
93
94
           \ifx\@firstdigit\@empty
95
                \let\@firstdigit=\@digit
           \else
96
                \if 1\@firstdigit
97
                    \if 1\@digit\else
98
                         \setlength{\onec@rrection}{-\onec@rrfrac\@temp}%
99
100
                    \fi
101
                \else
102
                    \if 1\@digit
103
                          \setlength{\onec@rrection}{\onec@rrfrac\@temp}%
                    \fi
104
```

```
\fi
105
            \fi
106
       }%
107
       \settoheight{\@temp}{M}%
108
       \addtolength{\@temp}{-\squ@re}%
109
       \raisebox{.5\@temp}{%
110
            \setlength{\unitlength}{\squ@re}%
111
112
            \hspace*{-\h@nging}%
            \begin{picture}(1,1)
113
                \put(0,0){%
114
                    \framebox(1,1){\hspace*{\onec@rrection}\indexf@nt\thetr@ckindex}%
115
                }
116
            \end{picture}%
117
       }%
118
       \hspace*{6pt}%
119
       \addtocounter{tr@ckindex}{1}%
120
121 }
We declare some utility commands which allow for easy font dimension switch.
The \newcd command resets to defaults all the fonts and the text defaults.
122 \AtBeginDocument{%
       \pagestyle{empty}%
123
124
       \thispagestyle{empty}%
       \newcd
125
126 }
127
128 \DeclareRobustCommand*{\fhb}[2]{%
129
       \fontsize{#1pt}{#2pt}\selectfont
130
       \parskip=.1\baselineskip
131 }
132
133 \DeclareRobustCommand*{\fh}[1]{\fontsize{#1pt}{\baselineskip}\selectfont}
134
135 \DeclareRobustCommand*{\newcd}{%
       \lefttracklist{}%
136
       \righttracklist{}%
137
       \covertext{}%
138
139
       \insidetext{}%
140
       \leftspine{}%
141
       \centerspine{}%
142
       \rightspine{}%
       \leftspinebis{\leftspin@}%
143
       \centerspinebis{\centerspin@}%
144
       \rightspinebis{\rightspin@}%
145
       \leftinfo{}%
146
       \rightinfo{}%
147
       \coverfont{\hb{16}{19}}%
148
149
       \backfont{\coverf@nt}%
       \left( \int_{10}^{12} \right)
150
151
       \spinefont{\fhb{9}{11}\bfseries}%
152
       \tracklistfont{\fhb{9}{10.5}}%
       \inf { \frac{1}{8.3}}
153
       \displaystyle \int \int \int (5)^{0} \
154
155 }
```

The following two commands are useful in alignment. The first command decides the height and width of a given strip of text, to be inserted in the spine. The point is that unless the alignspine option has been requested, we do not set \@hstrip, which has been set previously to the maximum height of a capital letter. The \alignt@baseline command is used at the end of boxes which could be bottom aligned: it eliminates the additional height inserted when a box last line has a descendant.

```
156 \DeclareRobustCommand*{\@sethwstrips}[1]{%
157
       \settowidth{\@wstrip}{\spinef@nt #1}%
158
       \if@lignspine
           \settoheight{\@hstrip}{\spinef@nt #1}%
159
       \fi
160
161 }
162
163 \DeclareRobustCommand*{\alignt@baseline}{%
164
       \settodepth{\@temp}{gjpqy}%
165
       \vphantom{gjpqy}\par
       166
167 }
```

It is now easy to write down the \makecover command. It is just a matter of laying out the material, and print the requested crop marks.

```
168 \DeclareRobustCommand*{\makecover}[1][lrtb]{%
169 \voffset=0in
170 \begin{picture}(120,240)
171 \end{picture}%
172 \begin{rotate}{90}%
173 \begin{picture}(240,120)
174
        \@tfor\cr@pmark := #1 \do {
175
        \if l\cr@pmark
             \t(-1,0){\{(-1,0)\{5\}\}}
176
             \put(-1,120){\line(-1,0){5}}
177
        \else\if r\cr@pmark
178
             \begin{array}{l} \text{(241,0)} \\ \text{(1,0)} \\ \end{array}
179
             \put(241,120){\line(1,0){5}}
180
        \else\if b\cr@pmark
181
             \put(0,-1){\line(0,-1){5}}
182
183
             \put(240,-1){\line(0,-1){5}}
             \poline{120,-1}{\line(0,-1){1}}
184
             \t(120,-3){\t(0,-1){1}}
185
             \put(120,-5){\line(0,-1){1}}
186
187
        \else\if t\cr@pmark
             \put(0,121){\line(0,1){5}}
188
             \put(240,121){\line(0,1){5}}
189
             \put(120,121){\line(0,1){1}}
190
             \put(120,123){\line(0,1){1}}
191
192
             \put(120,125){\line(0,1){1}}
        \else\if c\cr@pmark
193
194
             \put(0,0){\line(1,0){240}}
195
             \begin{array}{l} \begin{array}{l} \begin{array}{l} \begin{array}{l} \\ \\ \end{array} \end{array} \end{array}
             \put(120,0){\{\line(0,1)\{120\}\}}
196
             \put(0,120){\{\line(1,0)\{240\}\}}
197
             \put(240,0){\line(0,1){120}}
198
199
        \fi\fi\fi\fi\fi
```

```
}
200
201
       \ifx\insid@graphics\@empty
202
            \put(0,0){%
203
                \makebox(120,120)[\@ligninside]{%
204
                     \parbox{12cm}{%
205
                          \raggedright\insidef@nt\insid@text\alignt@baseline
206
207
                    }%
                }%
208
            }
209
       \else
210
            \put(10,10){%
211
                \makebox(100,100)[\@ligninside]{%
212
                    \parbox{10cm}{%
213
                          \raggedright\insidef@nt\insid@text\alignt@baseline
214
215
                    }%
                }%
216
217
            }
       \fi
218
       \ifx\c@vergraphics\@empty
219
            \put(120,0){%
220
                \makebox(120,120)[\@ligncover]{%
221
                    \parbox{12cm}{%
222
                          \raggedright\coverf@nt\c@vertext\alignt@baseline
223
224
                    }%
                }%
225
            }
226
227
       \else
228
            \put(130,10){%
                \makebox(100,100)[\@ligncover]{%
229
                    \parbox{10cm}{%
230
                          \raggedright\coverf@nt\c@vertext\alignt@baseline
231
232
                    }%
                }%
233
234
            }
       \fi
236 \end{picture}%
237 \end{rotate}%
238 }
```

The \makeback command is slightly more complicated, as it must set up come values for the \track command to work. Moreover, it has to check for empty right information or tracklist minipages, as in this case the left ones must be enlarged, and it must try to use the text from the cover page if no back text has been specified.

```
239 \DeclareRobustCommand*{\makeback}[1][lrtb]{%
240 \voffset=-.5in
241 \setindex{1}}%
242 \settowidth{\squ@re}{\indexf@nt00}%
243 \settoheight{\@temp}{\indexf@nt0}%
244 \addtolength{\squ@re}{.4\@temp}%
245 \setlength{\h@nging}{\squ@re}%
246 \addtolength{\h@nging}{\spinef@nt ABCDEFGHIJKLMNOPQRSTUVWXYZ}%
```

```
248 %
249 \ifx\righttr@cklist\@empty
       \setlength{\wtr@cklist}{12cm}%
251 \ensuremath{\setminus} else
       \setlength{\wtr@cklist}{5.5cm}%
252
253 \fi
254 %
255 \ifx\rightinf@\@empty
       \verb|\setlength{\winf@}{12cm}||
256
257 \ensuremath{\setminus} else
       \setlength{\winf@}{5.5cm}%
258
259 \fi
260 %
261 \begin{picture}(151,118)
       \@tfor\cr@pmark := #1 \do {
262
       \if l\cr@pmark
263
           \put(-1,0){\line(-1,0){5}}
264
265
           \put(-1,118){\line(-1,0){5}}
266
       \else\if r\cr@pmark
           \put(152,0){\line(1,0){5}}
267
           \put(152,118){\line(1,0){5}}
268
       \else\if b\cr@pmark
269
           \put(0,-1){\langle (0,-1) \{5\}}\
270
           \put(151,-1){\line(0,-1){5}}
271
272
           \put(6.5,-1){\line(0,-1){1}}
           \put(6.5,-3){\line(0,-1){1}}
273
           \put(6.5,-5){\line(0,-1){1}}
274
           \poline{0,-1}{1}
275
276
           \poline{0,-1}{1}
277
           \poline{0,-1}{1}
       \else\if t\cr@pmark
278
           \put(0,119){\line(0,1){5}}
279
           \put(151,119){\line(0,1){5}}
280
           \put(6.5,119){\line(0,1){1}}
281
           \put(6.5,121){\line(0,1){1}}
282
283
           \put(6.5,123){\line(0,1){1}}
           \t(144.5,119){\line(0,1){1}}
284
285
           \poline{144.5,121}{\line(0,1){1}}
286
           \put(144.5,123){\line(0,1){1}}
287
       \else\if c\cr@pmark
288
           \put(0,0){\line(1,0){151}}
289
           \put(0,0){\line(0,1){118}}
           \poline{0,1}{118}
290
           \put(0,118){\line(1,0){151}}
291
292
           \put(6.5,0){\line(0,1){118}}
           \poline(0,1){118}
293
294
       \fi\fi\fi\fi\fi
295
296
297
       \@sethwstrips{\leftspin@}
298
299
       \put(0,4){%
           \mbox(6.5,110)[b]{\%}
300
                 \makebox[\@hstrip][r]{%
301
```

```
\begin{rotate}{90}\spinef@nt\leftspin@\end{rotate}%
302
                                                                                                                               }%
303
                                                                                       }%
304
                                                        }
305
306
                                                          \@sethwstrips{\centerspin@}
 307
308
 309
                                                          \put(0,4){%
                                                                                         \mbox(6.5,110){%
 310
                                                                                                                                 \label{local_pt} $$ \arrive{ \cong with the constraint of the co
311
                                                                                                                                                                 \begin{rotate}{90}\spinef@nt\centerspin@\end{rotate}%
312
                                                                                                                               }}%
313
                                                                                        }%
314
                                                        }
315
316
                                                          \@sethwstrips{\rightspin@}
317
318
                                                          \put(0,4){%
319
                                                                                         \mbox(6.5,110)[t]{\%}
320
                                                                                                                                 \label{localization} $$ \operatorname{Opt}[\@wstrip]{\makebox[\@hstrip][r]{}''} $$
321
                                                                                                                                                                         \begin{rotate}{90}\spinef@nt\rightspin@\end{rotate}%
322
                                                                                                                               }}%
323
                                                                                        }%
324
                                                        }
325
326
                                                          \@sethwstrips{\leftspin@bis}
327
328
                                                          \put(144.5,4){%
329
 330
                                                                                         \mbox(6.5,110)[t]{\%}
 331
                                                                                                                                 \makebox[\@hstrip][1]{%
                                                                                                                                                                        \label{lem:leftspin@bis\end{rotate} % $$ \operatorname{cond}\operatorname{cont}\left( \operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{cond}\operatorname{con
332
                                                                                                                                 }%
 333
                                                                                        }%
334
                                                        }
 335
 336
337
                                                          \@sethwstrips{\centerspin@bis}
338
 339
                                                          \put(144.5,4){%
 340
                                                                                         \mbox(6.5,110){%
                                                                                                                                 \raisebox{\@wstrip}[\@wstrip]{\makebox[\@hstrip][1]{%
 341
 342
                                                                                                                                                                        \begin{rotate}{-90}\spinef@nt\centerspin@bis\end{rotate}%
                                                                                                                                 }}%
 343
                                                                                        }%
344
                                                       }
345
 346
                                                          \@sethwstrips{\rightspin@bis}
347
348
                                                          \put(144.5,4){%
349
                                                                                         \mbox(6.5,110)[b]{\%}
350
 351
                                                                                                                                 \raisebox{\@wstrip}[\@wstrip]{\makebox[\@hstrip][1]{%
 352
                                                                                                                                                                         \begin{rotate}{-90}\spinef@nt\rightspin@bis\end{rotate}%
                                                                                                                                 }}%
 353
                                                                                        }%
354
                                                        }
355
```

```
356
       \put(17,0){%
357
           \begin{picture}(121,118)
358
               \put(0,82){%
359
                    \makebox(120,30)[\@lignback]{%
360
                        \parbox{12.1cm}{%
361
                            \raggedright\backf@nt
362
363
                            \ifx\b@cktext\undefined
                                \ifx\c@vergraphics\@empty\else\c@vertext\fi
364
                            \else
365
                                \b@cktext
366
                            \fi
367
                            \alignt@baseline
368
                       }%
369
                   }%
370
               }
371
372
               \put(0,5){%
373
                    \mbox(55,70)[t1]{%}
374
                        \begin{minipage}{\wtr@cklist}%
375
                            \verb|\lineskip=.5pt\\| lineskiplimit=1pt\\| raggedright
376
                            \tracklistf@nt\lefttr@cklist
377
                        \end{minipage}%
378
                   }%
379
               }
380
381
               \put(65,5){%
382
                    \mbox(55,70)[t1]{%}
383
384
                        \begin{minipage}{\wtr@cklist}%
                            \lineskip=.5pt\lineskiplimit=1pt\raggedright
385
                            \tracklistf@nt\righttr@cklist
386
                        \end{minipage}%
387
                   }%
388
               }
389
390
391
               \put(0,5){%
392
                    \mbox(0,0)[b1]{\%}
393
                        \parbox{\winf@}{%
394
                            \raggedright\infof@nt\leftinf@\alignt@baseline
                       }%
395
                   }%
396
               }
397
398
               \put(65,5){%
399
                    \mbox(0,0)[bl]{%}
400
                        \parbox{\winf@}{%
401
                            402
                       }%
403
404
                   }%
405
               }
406
           \end{picture}%
407
       }
408
409
```

```
410 \end{picture}%
411 }
```

The \makeslimcover command is essentially a mix of the previous two, as a single slim cover must contain the front matter and the track lists. Note that we have much less space.

```
412 \DeclareRobustCommand*{\makeslimcover}[1][lrtb]{%
413 \voffset=0in
414 \setindex{1}%
415 \settowidth{\squ@re}{\indexf@nt00}%
416 \settoheight{\@temp}{\indexf@nt0}%
417 \addtolength{\squ@re}{.4\@temp}\%
418 \setlength{\h@nging}{\squ@re}%
419 \addtolength{\h@nging}{6pt}%
420 \textbf{ \ABCDEFGHIJKLMNOPQRSTUVWXYZ} \%
421 %
422 \ifx\righttr@cklist\@empty
423
       \setlength{\wtr@cklist}{10cm}%
424 \ensuremath{\setminus} else
425
       \setlength{\wtr@cklist}{4.7cm}%
426 \fi
427 %
428 \ifx\rightinf@\@empty
       \setlength{\winf@}{10cm}%
429
430 \else
       \left\{ \frac{4.7cm}{\%} \right\}
431
432 \fi
433 %
434 \begin{picture}(120,240)
435 \end{picture}%
436 \begin{rotate}{90}%
437 \begin{picture}(240,120)
       \@tfor\cr@pmark := #1 \do {
438
439
       \if l\cr@pmark
           \t(-1,0){\{(-1,0)\{5\}\}}
440
           \put(-1,120){\line(-1,0){5}}
441
       \else\if r\cr@pmark
442
           \put(241,0){\line(1,0){5}}
443
           \put(241,120){\line(1,0){5}}
444
       \else\if b\cr@pmark
445
           \put(0,-1){\line(0,-1){5}}
446
447
           \put(240,-1){\line(0,-1){5}}
448
           \put(120,-1){\line(0,-1){1}}
449
           \put(120,-3){\line(0,-1){1}}
450
           \put(120,-5){\line(0,-1){1}}
451
       \else\if t\cr@pmark
           \put(0,121){\line(0,1){5}}
452
           \put(240,121){\line(0,1){5}}
453
           \put(120,121){\line(0,1){1}}
454
           \put(120,123){\langle (0,1)\{1\}\rangle}
455
           \put(120,125){\line(0,1){1}}
456
       \else\if c\cr@pmark
457
458
           \put(0,0){\line(1,0){240}}
           \put(0,0){\line(0,1){120}}
459
```

```
\poline{120,0}{\line(0,1){120}}
460
            \poline{1,0}{\line(1,0){240}}
461
            \poline{240,0}{\line(0,1){120}}
462
        \fi\fi\fi\fi\fi
463
464
465
        \put(12,10){%
466
            \begin{picture}(100,100)
467
                \put(0,80){%
468
                     \label{lighback} $$\max\{0.30\ [\0] \] \
469
                         \parbox{10.1cm}{\%}
470
                              \raggedright\backf@nt
471
                              \ifx\b@cktext\undefined
472
                                  \ifx\c@vergraphics\@empty\else\c@vertext\fi
473
474
                              \else
                                  \b@cktext
475
                              \fi
476
477
                              \alignt@baseline
                         }%
478
                     }%
479
                }
480
481
                \put(0,15){%
482
                     \mbox(47,60)[t1]{\%}
483
484
                         \begin{minipage}{\wtr@cklist}%
                              \lineskip=.5pt\lineskiplimit=1pt\raggedright
485
                              \tracklistf@nt\lefttr@cklist
486
                         \end{minipage}%
487
488
                     }%
                }
489
490
                \put(55,15){%
491
                     \mbox(47,60)[t1]{\%}
492
                         \begin{minipage}{\tt wtr@cklist}{\tt %}
493
                              \lineskip=.5pt\lineskiplimit=1pt\raggedright
494
495
                              \tracklistf@nt\righttr@cklist
496
                         \end{minipage}%
497
                     }%
                }
498
499
                \put(0,0){%
500
                     \mbox(0,0)[b1]{\%}
501
                         \parbox{\winf@}{%
502
                              \raggedright\infof@nt\leftinf@\alignt@baseline
503
                         }%
504
                     }%
505
                }
506
507
                \put(55,0){%
508
509
                     \mbox(0,0)[b1]{\%}
510
                         \parbox{\winf@}{%
511
                              \raggedright\infof@nt\rightinf@\alignt@baseline
                         }%
512
                     }%
513
```

```
}
514
515
            \end{picture}%
516
517
        \ifx\c@vergraphics\@empty
518
            \put(120,0){%
519
                 \makebox(120,120)[\@ligncover]{%
520
521
                     \parbox{12cm}{%
522
                          \raggedright\coverf@nt\c@vertext\alignt@baseline
                     }%
523
                }%
524
            }
525
526
        \else
            \put(130,10){%
527
                 \makebox(100,100)[\@ligncover]{%
528
529
                     \parbox{10cm}{%
                          \raggedright\coverf@nt\c@vertext\alignt@baseline
530
531
                }%
532
            }
533
        \fi
534
535 \end{picture}%
536 \end{rotate}%
537 }
```

Finally, we have the high-level commands that allow to produce one or several CD from data files, \makeCD, \makelist, \makeslimCD and \makeslimlist. All have an additional argument for the file name, defaulting to \jobname.dat or \jobname.lst.

Two separate commands factor out the checks and the user interaction in case the file is not specified or does not exist.

A data file must contain only text declaration commands from the CD class. All LaTeX stuff (preamble, etc.) and cover generation commands are handled automatically. A list file must contain a number of lines, each containing a data file name.

```
538 \DeclareRobustCommand*{\@skCDfile}[1]{%
539 \left( \text{CDname} \right) 
540 \ifx\CDname\@empty
        \IfFileExists{\jobname.dat}{%
541
            \def\CDname{\jobname.dat}%
542
543
       }{%
            \typein[\CDname]{Please insert CD data file name:}%
544
545
       }%
546 \fi
547 \InputIfFileExists{\CDname.dat}{%
548 }{%
549
        \InputIfFileExists{\CDname}{%
550
            \ClassError{cd}{CD data file (\CDname.dat or \CDname) not found}{}%
551
552
553 }%
554 }
555
556 \DeclareRobustCommand*{\makeCD}[1][]{%
```

```
557 \ensuremath{\texttt{0skCDfile}$\#1}\makecover\par\makeback\par}
558 }
559
560 \DeclareRobustCommand*{\makeslimCD}[1][]{%
561 \@skCDfile{#1}\makeslimcover\par
562 }
564 \newread\CDlist
565
566 \newcounter{@cd}
567 \setcounter{@cd}{0}
568
569 \neq f
570
571 \DeclareRobustCommand*{\@sklistfile}[1]{%
572 \def\CDlistname{#1}%
573 \ifx\CDlistname\@empty
574
                    \IfFileExists{\jobname.lst}{%
                               \def\CDlistname{\jobname.lst}%
575
                   }{%
576
                               \typein[\CDlistname]{Please insert CD list file name:}
577
                   }%
578
579 \fi
580 \IfFileExists{\CDlistname.lst}{%
                    \immediate\openin\CDlist=\CDlistname.lst
581
582
                   }{%
583
                               \IfFileExists{\CDlistname}{%
                                          \immediate\openin\CDlist=\CDlistname
584
585
                              }{%
                                          \ClassError{cd}{CD list (\CDlistname.lst or \CDlistname) not found}{}%
586
                              }
587
                   }
588
589 \ne@ftrue
590 }
591
592 \DeclareRobustCommand*{\makelist}[1][]{%
593 \@sklistfile{#1}%
594 \advance\endlinechar\@M
595 \mbox{\em CDlist} to \mbox{\em CDname}
596 \advance\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\endlinechar-\end
597 \ifeof\CDlist\ne@ffalse\fi
598 %
599 \ \@whilesw \ifne@f \fi {%
                    \newcd
600
                    \InputIfFileExists{\CDname.dat}{%
601
                   }{%
602
                               \InputIfFileExists{\CDname}{%
603
604
                               }{%
605
                                          \ClassError{cd}{CD data file (\CDname.dat or \CDname) not found}{}%
606
                              }%
607
                   }%
608
                    \advance\endlinechar\@M
                    \immediate\read\CDlist to \CDname
609
                    \advance\endlinechar-\@M
610
```

```
\ifeof\CDlist\ne@ffalse\fi
611
                           \ifodd\value{@cd}%
612
                                          \makeback[lrb]\par\makecover\par
613
                           \else
614
615
                                          \makecover\par\ifne@f\makeback[lrt]\else\makeback\fi\par
616
                           \fi
617
                           \addtocounter{@cd}{1}%
618 }
619 }
620
621 \label{lem:command*{\makeslimlist}[1][]{} % \labell{lem:command*{\makeslimlist}[1][]{} % \labell{lem:command*{\makeslimlist}[1][]{} % \labell{lem:command*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[1][]{} % \labell*{\makeslimlist}[
622 \ensuremath{\texttt{@sklistfile{#1}}\%}
623 \advance\endlinechar\@M
624 \mbox{ \lower} to \CDname
625 \advance\endlinechar-\@M
626 \left| \text{CDlist}\right|
627 %
628 \ \@whilesw \ifne@f \fi {%
                           \newcd
629
                           \InputIfFileExists{\CDname.dat}{%
630
631
                                          \InputIfFileExists{\CDname}{%
632
633
                                          }{%
                                                         \label{local_condition} $$ \ClassError\{cd\}\{CD\ data\ file\ (\CDname.dat\ or\ \CDname)\ not\ found}_{}%$ $$
634
                                          }%
635
                           }%
636
637
                           \advance\endlinechar\@M
638
                           \immediate\read\CDlist to \CDname
639
                           \advance\endlinechar-\@M
                           \ifeof\CDlist\ne@ffalse\fi
640
                           \makeslimcover\par
641
642 }
643 }
644
645 \langle / class \rangle
```